

CURRICULUM VITAE

Michael P. Massett, Ph.D.

PERSONAL INFORMATION

Current Position:

Associate Professor
Department of Kinesiology and Sport Management
Texas Tech University
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EDUCATION

Syracuse University	B.S.	05/15/1988	Physical Education
University of Arizona	M.S.	05/11/1991	Exercise and Sport Sciences
University of Arizona (transferred to the University of Iowa in good academic standing)	-----	1993	Physiological Sciences
University of Iowa	Ph.D.	08/01/1997	Exercise Science

Doctoral Dissertation: *The effect of heating on vascular reactivity in the rat.*
Advisor: Kevin C. Kregel, Ph.D.

POSTDOCTORAL TRAINING

1997 - 2000	Department of Physiology New York Medical College Supervisor: Gabor Kaley, Ph.D.
2000 - 2001	Center for Cardiovascular Research University of Rochester School of Medicine & Dentistry Supervisor: Bradford C. Berk, M.D., Ph.D.

FELLOWSHIP AWARDS

NIH National Research Service Award - Institutional Predoctoral Traineeship, Physiological Sciences Graduate Program, University of Arizona, 1991 - 1993.

NIA National Research Service Award - Institutional Predoctoral Traineeship, Center on Aging, University of Iowa, 1994 - 1996.

NIH National Research Service Award - Individual Postdoctoral Fellowship, 1998 - 2001.

ACADEMIC AND PROFESSIONAL APPOINTMENTS

- 1988 - 1990 Graduate Teaching Assistant, Physical Education Courses, Department of Exercise and Sport Sciences, University of Arizona
- 1989 - 1991 Graduate Research Assistant, Body Composition Laboratory, Department of Exercise and Sport Sciences, University of Arizona
- 1992 Graduate Teaching Assistant, Exercise Physiology Laboratory, Department of Exercise and Sport Sciences, University of Arizona
- 1993 - 1994 Graduate Teaching Assistant, Department of Exercise Science, University of Iowa
- 1994 - 1997 Graduate Research Assistant, Department of Exercise Science, University of Iowa
- 2001 - 2002 Senior Instructor, Center for Cardiovascular Research, University of Rochester Medical Center
- 2002 - 2007 Research Assistant Professor, Center for Cardiovascular Research, University of Rochester Medical Center
- 2007 - 2013 Assistant Professor, Department of Health & Kinesiology, Texas A&M University
- 2007 - 2019 Investigator, Cardiovascular Research Institute (CVRI), College of Medicine, Texas A&M Health Science Center
- 2007 - present Member, Sydney and J.L. Huffines Institute for Sports Medicine and Human Performance, Texas A&M University
- 2013 - 2019 Associate Professor, Department of Health & Kinesiology, Texas A&M University
- 2018 - 2019 Assistant Chair, Kinesiology Division, Department of Health & Kinesiology, Texas A&M University (Primarily responsible for faculty and GA teaching assignments and liaison with undergraduate student advisors regarding curriculum)
- 2019 - present Associate Professor, Department of Kinesiology and Sport Management, Texas Tech University
- 2019 - present Adjunct Associate Professor, Department of Health & Kinesiology, Texas A&M University

PROFESSIONAL AFFILIATIONS

- American College of Sports Medicine, 2012 - present
- American Physiological Society, 1993 - present
- American Heart Association, 2002 - present
- The Microcirculatory Society, 2000 - 2015

HONORS OR AWARDS

- Syracuse University Scholarship, 1984 - 1988
- Distinguished Freshman Scholarship, Syracuse University, 1984 - 1988
- Phi Epsilon Kappa, Pi Epsilon Kappa, Syracuse University, 1988
- Gatorade Student Research Award, The Quaker Oats Company, 1991.
- C. H. McCloy Scholarship, Department of Exercise Science, University of Iowa, 1995.
- Louis E. Alley Graduate Student Award, Department of Exercise Science, University of Iowa, 1996.
- Experimental Biology 2000 Young Investigator Travel Award from the Cardiovascular Section of the American Physiological Society.

- Experimental Biology 2000 Recognition Award for Meritorious Research by a Young Investigator, Cardiovascular Section of the American Physiological Society.
- Research Career Enhancement Award, the American Physiological Society, 2004.
- Teacher of the Year in Kinesiology, Department of Health and Kinesiology, Texas A&M University, 2015
- Distinguished Service Award, Physiological Genomics Group, American Physiological Society, 2017

Research-Related Professional Development

Participant, 2008 NHLBI Genomics and Proteomics Hands On Workshop, Denver, CO, 7/2008
Participant, The Huffines Institute/Grant Central grant writers' workshop, 10/2011

Ongoing Research Support

Start-up Funds, Texas Tech University Massett (PI) 09/01/19-08/31/23
The purpose of this funding is facilitating establishment of the PI's research laboratory at Texas Tech University and to fund preliminary studies needed to be competitive for extramural research support.

Completed Research Support

AHA Transformational Project Award (TPA) (Trache, A., PI) 7/1/18 – 5/30/22
Cytoskeleton remodeling regulates contractile function and mechanosensing in vascular smooth muscle
The objective of this proposal is to determine how actin isoforms contribute to the regulation of contractile function and mechanosensing of VSM cells in thoracic aneurysm and aortic dissection (TAAD).
Role: Collaborator

T3: Texas A&M Triads for Transformation (Masset, PI) 4/1/18 – 5/30/21
Influence of genetic background on vascular function
The goals of this project are to investigate the contribution of genetics to variation in vascular function and to compare blood vessel function in different sized blood vessels from areas throughout the vascular system.
Role: PI

F&A Designated Funds, Texas A&M University (Masset, PI) 12/17/2012 – 08/16/2019
Research Support Funds
The purpose of this funding is support ongoing research in the PI's laboratory and to fund preliminary studies needed to be competitive for extramural research support.

TIAS Pilot Project (Masset, PI) 11/01/14 – 09/01/18
Texas Institute of Advanced Studies, Texas A&M (TIAS Fellow C. Bouchard)
Importance of Chromosome 14 in the genetic basis for exercise capacity and training responsiveness
Internally funded project to obtain preliminary data for NIH grant application
Role: PI

NIH/NHLBI 1R01 HL085918-01 (**Massett**, PI) (04/01/07 - 02/28/15)
Genetic basis for exercise training responses
The objective of this proposal is to use quantitative trait loci (QTL) mapping to identify novel candidate genes that influence the variation in exercise training responses.
Role: PI

William Townsend Porter Predoctoral Fellowship Award (09/01/12 - 08/31/14)
The American Physiological Society
Role: PI (Academic advisor to Fellow: J. J. Avila)

Faculty Research Mini-Grant (**Massett**, PI) (05/01/09 - 12/31/11)
Sydney and J.L. Huffines Institute for Sports Medicine and Human Performance, Texas A&M University
Renin angiotensin system and exercise
The major goal of this study is to determine the effect of differences in angiotensinogen gene copy number on exercise capacity and endothelial function following exercise training.
Role: PI

NIH/NHLBI R01 HL 062826 (Berk, PI) 4/10/04 - 3/31/08
Genetics of Vascular Remodeling
This project will determine candidate gene loci responsible for vascular remodeling.
Role: Investigator

NIH/NHLBI R01 HL63462 (Berk, PI) 12/16/02 - 11/30/07
Angiotensin II Signal Transduction
This project will characterize the signal transduction events activated by angiotensin II focusing on determining the role of c-Src, Rho and the PDGF receptor in angiotensin II-mediated events.
Role: Investigator

01300500T (**Massett**, PI) 07/1/01 - 06/31/04
Scientist Development Grant
American Heart Association
Renin-angiotensin system and exercise
The major goal of this study is to determine the effect of differences in angiotensinogen gene copy number in the number in the peripheral vascular responses to exercise training.
Role: PI

F32 HL10111-03 (**Massett**, PI) 07/01/98 - 06/30/01
NIH/NHLBI
National Research Service Award, Individual Fellowship Award
Exercise and metabolic control of vascular tone
The aim of this study was to determine the effect of exercise training on the metabolic control of vascular tone in isolated, perfused microvessels.
Role: PI

PUBLICATIONS

Book Chapters:

Avila, J. J., S. M. Courtney, and **M. P. Massett**. Heritability of endurance traits from animal research models. In: *Routledge Handbook of Sport and Exercise Systems Genetics*. Edited by

J. Timothy Lightfoot, Monica Hubal, and Stephen Roth. Abingdon, Oxon ; New York, NY :
Routledge, 2019.: Routledge. doi:10.4324/9781315146287.

Original (scientific) articles:

1. Going, S. B., **M. P. Massett**, M. C. Hall, L. A. Bare, P. A. Root, D. P. Williams, and T. G. Lohman. Detection of small changes in body composition by dual energy x-ray absorptiometry. *Am. J. Clin. Nutr.* 57: 845-850, 1993.
2. Williams, D. P., S. B. Going, **M. P. Massett**, T. G. Lohman, L. A. Bare, and M. J. Hewitt. Aqueous and mineral fractions of the fat-free body and their relation to body fat estimates in men and women aged 49-82 years. *Basic Life Sci.* 109-113, 1993.
3. **Masset, M. P.**, D. G. Johnson, and K. C. Kregel. The cardiovascular and sympatho-adrenal responses to heat stress following water deprivation in rats. *Am. J. Physiol.* 270 (*Regulatory Integrative Comp. Physiol.* 39): R652-R659, 1996.
4. Stauss, H. M., D. A. Morgan, K. E. Anderson, **M. P. Massett**, and K. C. Kregel. Aging is not accompanied by sympathetic hyperresponsiveness to air-jet stress. *Am. J. Physiol.* 271 (*Heart Circ. Physiol.* 40): H768-H775, 1996.
5. Stauss, H. M., D. A. Morgan, K. E. Anderson, **M. P. Massett**, and K. C. Kregel. Modulation of baroreflex sensitivity and spectral power of blood pressure by heat stress and aging. *Am. J. Physiol.* 272 (*Heart Circ. Physiol.* 41): H776-H784, 1997.
6. Kregel, K. C., M. J. Kenney, **M. P. Massett**, D. A. Morgan, and S. J. Lewis. Role of nitrosyl factors in the hemodynamic adjustments to heat stress in the rat. *Am. J. Physiol.* 273 (*Heart Circ. Physiol.* 42): H1537-H1543, 1997.
7. **Masset, M. P.**, S. J. Lewis, J. N. Bates, and K. C. Kregel. Effect of heating on vascular reactivity in rat mesenteric arteries. *J. Appl. Physiol.* 85: 701-708, 1998.
8. **Masset, M. P.**, S. J. Lewis, and K. C. Kregel. Effect of heating on the hemodynamic responses to vasoactive agents. *Am. J. Physiol.* 275 (*Regulatory Integrative Comp. Physiol.* 44): R844-R853, 1998.
9. **Masset, M. P.**, S. J. Lewis, J. N. Bates, and K. C. Kregel. Modulation of temperature-induced vascular tone by vasoconstrictor agents. *J. Appl. Physiol.* 86: 963-969, 1999.
10. **Masset, M. P.**, S. J. Lewis, H. M. Stauss, and K. C. Kregel. Vascular reactivity and baroreflex function during hyperthermia in conscious rats. *Am. J. Physiol. Regulatory, Integrative Comp. Physiol.* 279: R1282-R1289, 2000.
11. **Masset, M. P.**, A. Koller, and G. Kaley. Hyperosmolality-induced dilation in rat skeletal muscle arterioles: Endothelial K_{ATP} channels and daily exercise. *J. Appl. Physiol.* 89: 2227-2234, 2000.
12. **Masset, M. P.**, Z. Ungvari, A. Csiszar, G. Kaley, and A. Koller. Differential role of PKC and MAP kinases in myogenic and agonist-induced constriction of skeletal muscle arterioles. *Am. J. Physiol. Heart Circ. Physiol.* 283: H2282-H2287, 2002.

13. Korshunov, V. A., **M. P. Massett**, R. M. Carey, and B. C. Berk. Role of angiotensin converting-enzyme and neutral endopeptidase in flow-dependent remodeling. *J. Vasc. Res.* 41: 148-156, 2004.
14. **Masset, M. P.**, and B. C. Berk. Strain-dependent differences in responses to exercise training in inbred and hybrid mice. *Am. J. Physiol. Regul. Integr. Comp. Physiol.* 288:R1006-R1013, 2005.
15. Barker, T. A., **M. P. Massett**, V. A. Korshunov, A. M. Mohan, A. J. Kennedy, B. C. Berk. AT₂R expression following vascular injury: Differing effects of ACE inhibition and angiotensin receptor blockade. *Hypertension* 48: 942-949, 2006.
16. Woo, C.-H., **M. P. Massett**, T. Shishido, S. Itoh, B. Ding, C. McClain, W. Che, S. R. Vulapalli, C. Yan, J. Abe. ERK5 activation inhibits inflammatory responses via peroxisome proliferator-activated receptor δ (PPAR δ) stimulation in skeletal muscle: Possible involvement in aging. *J. Biol. Chem.* 281: 32164-32174, 2006.
17. Chen, C., V. A. Korshunov, **M. P. Massett**, C. Yan, and B. C. Berk. Impaired vasorelaxation in inbred mice is associated with alterations in both nitric oxide and superoxide pathways. *J. Vasc. Res.* 44:504–512, 2007.
18. Korshunov, V. A., M. Daul, **M. P. Massett**, and B. C. Berk. Axl mediates vascular remodeling in DOCA-salt hypertension. *Hypertension* 50: 1057-1062, 2007.
19. Pang, J., C. Yan, K. Natarajan, M. E. Cavet, **M. P. Massett**, G. Yin, and B. C. Berk. GIT1 mediates HDAC5 activation by angiotensin II in vascular smooth muscle cells. *Arterioscler. Thromb. Vasc. Biol.* 28:892-898, 2008, PMC2735338.
20. Pang, J., R. Hoefen, G. S. Pryhuber, J. Wang, G. Yin, J. R. White, X. Xu, M. R. O'Dell, A. Mohan, **M. P. Massett**, C. Yan, and B. C. Berk. Git1 is required for pulmonary vascular development. *Circulation* 119:1524-1532, 2009, PMC2732662.
21. **Masset, M. P.**, R. Fan, and B. C. Berk. Quantitative trait loci for exercise training responses in FVB/NJ and C57BL/6J mice. *Physiol. Genomics* 40: 15-22, 2009, PMC2807210.
22. Liu, S. Y. F. Lee, S. M. Chou, H. Uno, G. Li, P. Brookes, **M. P. Massett**, Q. Wu, L. Chen, and C. Chang. Mice lacking TR4 nuclear receptor develop mitochondrial myopathy with deficiency in complex I. *Mol. Endocrinol.* 25: 1301-1310, 2011, PMC3146253.
23. Courtney*, S. M., and **M. P. Massett**. Identification of exercise capacity QTL using association mapping in inbred mice. *Physiol. Genomics* 44:948-955, 2012, PMC3472463.
24. Courtney*, S. M., and **M. P. Massett**. The effect of chromosome substitution on intrinsic exercise capacity mice. [v2; ref status: indexed, <http://f1000r.es/3jr>] *F1000Research* 3:9, 2014, doi: 10.12688/f1000research.3-9.v2, PMC4032107.
25. **Masset, M. P.**, J. J. Avila*, and S. K. Kim*. Exercise capacity and response to training quantitative trait loci in a NZW X 129S1 intercross and combined cross analysis of inbred mouse strains. *PLoS One* 10: e0145741, 2015, doi:10.1371/journal.pone.0145741, PMC4692404.

26. Kim*, S. K., J. Avila*, and **M. P. Massett**. Strain survey and genetic analysis of vasoreactivity in mouse aorta. *Physiol Genomics* 48:861–873, 2016, doi:10.1152/physiolgenomics.00054.2016, PMC6223573.
27. Kim*, S. K., and **M. P. Massett**. Genetic regulation of endothelial vasomotor function. *Front. Physiol.* 7:571, 2016, doi: 10.3389/fphys.2016.00571, PMC5122706.
28. Avila*, J.J., S. K. Kim*, and **M. P. Massett**. Differences in exercise capacity and training responses in 24 inbred mouse strains. *Front. Physiol.* 8:974, 2017, doi: 10.3389/fphys.2017.00974, PMC5714923
29. **Masset, M. P.**, S. M. Courtney*, S. K. Kim*, and J. J. Avila*. Contribution of chromosome 14 to exercise capacity and training responses in mice. *Front. Physiol.* 10:1165, 2019, doi: 10.3389/fphys.2019.01165, PMC6753330.
30. Kim*, S. K., J. J. Avila*, and **M. P. Massett**. Interaction of genetic background and exercise training intensity on endothelial function in mouse aorta. *Korean J Physiol Pharmacol* 24:53-68, 2020, DOI: 10.4196/kjpp.2020.24.1.53, PMC694050,.
31. Luttrell, M., Kim, H.* , S. Y. Shin*, D. Holly*, **M. P. Massett**, and C. Woodman. Heterogeneous effect of aging on vasorelaxation responses in large and small arteries. *Physiol Rep.* 8:e14344, 2020, DOI: 10.14814/phy2.14341, PMC6971410.
32. **Masset†, M. P.**, B. Bywaters†, H. Gibbs†, J. Trzeciakowski, S. Padgham, J. Chen, G. Rivera, A. Yeh, D. Milewicz, A. Trache. Loss of smooth muscle α -actin effects on mechanosensing and cell–matrix adhesions. *Exp Biol Med (Maywood)* 245(4):374-384, 2020, DOI: 10.1177/1535370220903012, PMID: 32064918, PMC7370591. † denotes equal contributions
33. Trache, A., **M. P. Massett**, and C. R. Woodman. Vascular smooth muscle stiffness and its role in aging. *Curr Top Membr.* 2020; 86: 217-253. doi.org/10.1016/bs.ctm.2020.08.008. (Peer-reviewed book series, IF: 3.744, SJR: 1.972)
34. Vellers, H.L., **M. P. Massett**, J. J. Avila, S. K. Kim, J. Marzec, J. H. Santos, J. T. Lightfoot, and S. R. Kleeberger. Mitochondrial DNA lesions and copy number are strain dependent in endurance-trained mice. *Physiol Rep.* 8:e14605, 2020, doi.org/10.14814/ phy2.14605, PMC7666774.
35. **Masset, M. P.**, C. Matejka†, and H. Kim*, Systematic Review and Meta-Analysis of Exercise Training Protocols for Mice. *Front. Physiol.* 12: 2143, 2021. doi: 10.3389/fphys.2021.782695.

Manuscripts Submitted or In Preparation:

1. Holly, D. S.*, S. Gaytan*, H. Kim*, S. Shin*, C. Woodman, and **M. P. Massett**, Genetic background influences endothelial function along the mouse vascular tree (*In preparation*).
2. Nino*, M., H. Kim*, and **M. P. Massett**. Response to endurance training using critical speed: influence of genetic background and exercise intensity (*In preparation*).

- Ojha, Krishna Raj[†], H. Kim^{†*}, **M. P. Massett**, S. Padgham, J. Chen, D. Milewicz, A. Trache. Role of α -actin mutation R149C in mechanosensing and cell–matrix adhesions. [†] denotes equal contributions (*In preparation*).

* DENOTES current or former graduate student authors

Abstracts

- Masset, M. P.**, S. B. Going and T. G. Lohman. Changes in body composition estimated by bioelectrical impedance analysis and hydrostatic weighing. *Int. J. Sports Med.* 12: 337, 1991. (Presented at the 1991 American College of Sports Medicine Annual Meeting, Orlando, FL)
- Masset, M. P.**, D. P. Williams, S. B. Going and T. G. Lohman. A comparison of dual energy radiography to a multiple component model for the estimation of percent fat. *Med. Sci. Sports Exerc.* 23 Supplement: S149, 1991. (Presented at the 1992 American College of Sports Medicine Annual Meeting, Dallas, TX)
- Going, S., **M. Massett**, D. Williams, M. Hewitt, T. Lohman, L. Bare, and M. Hall. Multiple component estimation of body composition in middle-aged and older men and women. *Med. Sci. Sports Exerc.* 24 Supplement: S110, 1992. (Presented at the 1992 American College of Sports Medicine Annual Meeting, Dallas, TX)
- Masset, M. P.**, M. C. Hall, S. B. Going, T. G. Lohman, and T. A. Root. Detection of small changes in soft tissue composition by dual-energy x-ray absorptiometry. *Med. Sci. Sports Exerc.* 24 Supplement: S58, 1992. (Presented at the 1992 American College of Sports Medicine Annual Meeting, Dallas, TX)
- Masset, M. P.**, and K. C. Kregel. The cardiovascular responses to heat stress following water deprivation in anesthetized rats. *Med. Sci. Sports Exerc.* 26 Supplement: S161, 1994. (Presented at the 1994 American College of Sports Medicine Annual Meeting, Indianapolis, IN)
- Kregel, K.C., **M. P. Massett**, and S. J. Lewis. Role of constitutive nitric oxide synthase in heat-induced hindlimb vasodilation in the rat. (Presented at the 1995 American Heart Association Scientific Conference Functional and Structural Aspects of the Vascular Wall, Salt Lake City, UT.)
- Masset, M. P.**, and K. C. Kregel. Aging, nitrosyl factors, and the cardiovascular responses to heat stress in rats. *FASEB J.* 9: A336, 1995. (Presented at the 1995 Experimental Biology Meeting, Atlanta, GA)
- Masset, M. P.**, S. J. Lewis, and K. C. Kregel. Effect of hyperthermia on the hemodynamic responses to α - and β -adrenoceptor agonists. *FASEB J.* 10: A589, 1996. (Presented at the 1996 Experimental Biology Meeting, Washington, DC)
- Kregel, K. C., D. A. Morgan, K. E. Anderson, **M. P. Massett**, and H. M. Stauss. Aging is not accompanied by sympathetic hyperresponsiveness to environmental stress. *FASEB J.* 10: A592, 1996. (Presented at the 1996 Experimental Biology Meeting, Washington, DC)

10. Stauss, H. M., **M. P. Massett**, K. E. Anderson, and K. C. Kregel. High frequency blood pressure oscillations can be modulated by the sympathetic nervous system. *FASEB J.* 10: A9, 1996. (Presented at the 1996 Experimental Biology Meeting, Washington, DC)
11. Kregel, K. C., D. A. Morgan, K. E. Anderson, **M. P. Massett**, and H. M. Stauss. Modulation of baroreflex sensitivity and spectral power of blood pressure by heat stress and aging. *The Physiologist.* 39: A16, 1996. (Presented at the APS Conference The Integrative Biology of Exercise, Vancouver, B.C., Canada)
12. **Masset, M. P.**, S. J. Lewis, J. N. Bates, G. Aldape, and K. C. Kregel. Effect of heating on vascular reactivity in rat mesenteric arteries. *FASEB J.* 11: A263, 1997. (Presented at the 1997 Experimental Biology Meeting, New Orleans, LA)
13. **Masset, M. P.**, S. J. Lewis, H. M. Stauss, and K. C. Kregel. Vascular reactivity and baroreflex function during hyperthermia in conscious rats. *FASEB J.* 12: A986, 1998. (Presented at the 1998 Experimental Biology Meeting, San Francisco, CA)
14. **Masset, M. P.**, A. Koller, and G. Kaley. Hyperosmolarity-induced dilation in rat skeletal muscle arterioles. *The Physiologist.* 41: 275, 1998. (Presented at the 1998 APS Conference Endothelial Regulation of Vascular Tone: Molecular to Integrative Physiology, Augusta, GA)
15. **Masset, M. P.**, A. Koller, and G. Kaley. K_{ATP} channels mediate glucose-induced dilation. *FASEB J.* 13: A30, 1999. (Presented at the 1999 Experimental Biology Meeting, Washington, DC)
16. Kaley, G., M. Szekeres, **M. Massett**, and A. Koller. Exercise enhances myogenic response of intramural coronary arterioles. Role of smooth muscle hypertrophy and altered endothelial function. *Physiol Res.* 48 Suppl 1:S1-143, 1999. (Presented at the Federation of European Physiological Societies Congress, Prague, Czech Republic, June 1999)
17. **Masset, M. P.**, A. Koller, and G. Kaley. Effect of MAP Kinase Kinase (MEK) inhibitor PD98059 on constrictor responses in skeletal muscle arterioles. *FASEB J.* 14: A28, 2000. (Presented at the 2000 Experimental Biology Meeting, San Diego, CA)
18. Korshunov, V. A., **M. P. Massett**, and B.C. Berk. Omapatrilat augments outwards vascular remodeling in genetically hypertensive rats. *Endothelium* 9(5-6):291-518, 2002. (Presented at the 2002 International Vascular Biology Meeting, Karuizawa, Japan)
19. **Masset, M. P.**, and B. C. Berk. Exercise capacity and skeletal muscle capillary density are correlated in inbred mouse strains. <http://select.biosis.org/faseb/faseb.html>, on-line addendum to *FASEB J.* (Presented at the 2004 Experimental Biology Meeting, Washington, DC, 04/04)
20. I. A. Trounce, M. McKenzie, C. A. Cassar, C. A. Ingraham, C. A. Lerner, D. A. Dunn, C. L. Donegan, J. Littleton, W. K. Pogozelski, K. Takeda, J. P. Corsetti, **M. Massett**, R. B. Baggs, R. L. Howell and C. A. Pinkert. Characterization of xenomitochondrial mouse models. (Presented at Genetics Day 2004, University of Rochester Medical Center, 04/04)
21. Chen, C., V. A. Korshunov, **M. P. Massett**, and B. C. Berk. Impaired endothelium-dependent vasorelaxation was predictive for intima-media thickening in mice. *Arterioscler.*

- Thromb. Vasc. Biol.* 25: e67, 2005. (Presented at AHA 6th Annual Conference on Arteriosclerosis, Thrombosis and Vascular Biology, Washington, DC, 04/05)
22. Barker, T. A., **M. P. Massett**, V. A. Korshunov, A. M. Mohan, B. C. Berk. Valsartan reduces restenosis following balloon injury via angiotensin type 2 receptor, bradykinin 1 receptor and bradykinin 2 receptor dependent pathways. *Arterioscler. Thromb. Vasc. Biol.* 25: e49, 2005. (Presented at AHA 6th Annual Conference on Arteriosclerosis, Thrombosis and Vascular Biology, Washington, DC, 04/05)
 23. **Masset, M. P.**, and B. C. Berk. Genome scan for exercise training responses. <http://select.biosis.org/faseb/faseb.html>, on-line addendum to *FASEB J.* (Presented at the 2006 Experimental Biology Meeting, San Francisco, CA, 04/06)
 24. Daul, M., V. A. Korshunov, **M. P. Massett**, and B. C. Berk. Axl Contributes to Vascular Impairment in DOCA-Salt Induced Hypertension. *Hypertension* 48: e100, 2006. (Presented at the 60th Annual Fall Conference and Scientific Sessions of the Council for High Blood Pressure Research, San Antonio, TX, 10/06)
 25. Abe, J. C.-H. Woo, **M. P. Massett**, T. Shishido, S. Itoh, B. Ding, C. McClain, W. Che, S. R. Vulapalli, and C. Yan. Erk5 activation inhibits inflammatory responses via peroxisome proliferator-activated receptor δ stimulation in skeletal muscle: possible involvement in aging. (Presented at the 3rd Annual Symposium of the American Heart Association Council on Basic Cardiovascular Sciences, Keystone, CO, 08/06)
 26. Woo, C.-H., **M. P. Massett**, T. Shishido, S. Itoh, B. Ding, C. McClain, W. Che, C. Yan, J. Abe. Heme oxygenase-1 and a carbon monoxide releasing compound, [Ru(CO)₃Cl₂]₂, induced ERK5 activation inhibits inflammatory responses via peroxisome proliferator-activated receptor δ stimulation in skeletal muscle. *Circulation* 114: (Suppl. II), II-160, 2006. (Presented at the American Heart Association Scientific Sessions 2006, Chicago, IL, 11/06)
 27. Pang, J. C. Yan, **M. Massett**, and B. Berk. GIT1 mediated HDAC5 phosphorylation by angiotensin II through Src, PLC γ and CamKII. *FASEB J.* 21:871.11, 2007. (Presented at the 2007 Experimental Biology Meeting, Washington, DC, 04/07)
 28. Pang, J., R. Hoefen, G. Yin, R. J. White, C. Yan, **M. P. Massett**, B. C. Berk. Git1 is required for pulmonary vascular development. *Circulation* 116: (Suppl. II), II_36, 2007. (Presented at the American Heart Association Scientific Sessions 2007, Orlando, FL 11/07, Cournand and Comroe Young Investigator Prize in Cardiopulmonary and Critical Care)
 29. Wang, J., Y. Taba, J. Pang, **M. Massett**, C. Yan, B. Berk. GIT1 regulates angiogenesis by affecting endothelial cell podosome formation and migration. *Circulation* 116: (Suppl. II), II_81, 2007. (Presented at the American Heart Association Scientific Sessions 2007, Orlando, FL 11/07)
 30. **Masset, M. P.** and B. C. Berk. Quantitative trait loci for exercise capacity and response to training in FVB/NJ and C57BL/6J mice. *FASEB J.* 23:801.6, 2009. (Presented at the 2009 Experimental Biology Meeting, New Orleans, LA, 04/09)
 31. Courtney*, S. M. and **M. P. Massett**. Mouse strain dependent variation in exercise capacity. *FASEB J.* 24: 618.21, 2010. (Presented at the 2010 Experimental Biology Meeting, Anaheim, CA, 04/10)

32. **Masset, M. P.** and B. C. Berk. Quantitative trait loci for exercise capacity and response to training in mice. (Presented at 9th annual meeting of Complex Trait Community, Chicago, IL, 05/10)
33. **Masset, M. P.** and S. M. Courtney*. Effect of chromosome substitution on endurance exercise capacity in mice. *Med. Sci. Sports Exerc.* 42 (Supplement 2): 100-101, 2010. (Presented at ACSM Conference on Integrative Physiology of Exercise, Miami, FL 09/10).
34. Avila*, J., S. K. Kim*, and **M. P. Massett**. Responses to exercise training are genetically determined in inbred mouse strains. *FASEB J.* 25: 862.2, 2011. (Presented at 2011 Experimental Biology, Washington, DC, 04/11)
35. Kim*, S. K., J. Avila*, and **M. P. Massett**. Effect of exercise training on vascular reactivity in inbred strains of mice. *FASEB J.* 25: 1b566, 2011. (Presented at 2011 Experimental Biology, Washington, DC, 04/11)
36. Courtney*, S. M., and **M. P. Massett**. Association mapping of endurance exercise capacity in 32 inbred mouse strains. (Presented at Mouse Genetics 2011, Washington, DC, 06/11)
37. Kim*, S. K., J. Avila*, and **M. P. Massett**. Strain-dependent variation in vasoreactivity in isolated mouse thoracic aorta. *FASEB J.* 26: 1098.12, 2012. (Presented at 2012 Experimental Biology, San Diego, CA, 04/12)
38. Avila*, J. J., S. K. Kim*, and **M. P. Massett**. Haplotype association mapping for exercise training in inbred mice. *FASEB J.* 26: 1b750, 2012. (Presented at 2012 Experimental Biology, San Diego, CA, 04/12)
39. Courtney*, S. M., and **M. P. Massett**. The effect of chromosome substitution on endurance exercise capacity in inbred and F₂ generation mice. *FASEB J.* 26: 1b806, 2012. (Presented at 2012 Experimental Biology, San Diego, CA, 04/12)
40. Kim*, S. K., J. Avila*, and **M. P. Massett**. Genome-wide association mapping of vasoreactivity in thoracic aorta from inbred mice. *FASEB J.* 27:1212.13, 2013 (Presented at 2013 Experimental Biology, Boston, MA, 04/13)
41. Avila*, J.J., S. K. Kim, and **M. P. Massett**. Identification of phenotypic adaptations to exercise training across mouse strains classified as high and low responders. *FASEB J.* 27:1b757 (Presented at 2013 Experimental Biology, Boston, MA, 04/13)
42. **Masset, M. P.**, J. J. Avila*, and S. K. Kim*. Genetic analysis of exercise capacity and training responses in 129S1/SvImJ and NZW/LacJ mice. (Presented at Complex Trait Community 12th Annual Meeting, Madison, WI, 05/13)
43. Kim*, S. K., J. Avila*, and **M. P. Massett**. Genetic background limits the endothelial response to exercise training. *Med. Sci. Sports Exerc.* 46 Supplement: S508, 2014 (Presented at 2014 American College of Sports Medicine (ACSM) meeting, Orlando, FL, 05/14)
44. Kim*, S. K., J. Avila*, and M. P. Massett. Strain-dependent variation in vasoreactivity in isolated mouse thoracic aorta. *FASEB J.* 28:705.8, 2014 (Presented at 2014 Experimental

Biology, San Diego, CA, 04/14)

45. **Masset, M. P.**, J. J. Avila*, and S. K. Kim*. Genetic analysis of exercise capacity and training responses in 129S1/SvImJ and NZW/LacJ mice. *FASEB J.* 28:711.12, 2014 (Presented at 2014 Experimental Biology, San Diego, CA, 04/14)
46. Avila*, J.J., S. K. Kim, and **M. P. Massett**. Interaction between genetic background and training intensity influences training responses. *FASEB J.* 28:LB802, 2014 (Presented at 2014 Experimental Biology, San Diego, CA, 04/14)
47. Kim*, S. K., J. J. Avila*, and **M. P. Massett**. Genetic regulation of endothelial responses to exercise training. *FASEB J.* 29: 1b 728, 2015. (Presented at 2015 Experimental Biology, Boston, MA, 03/15)
48. Avila*, J. J., S. K. Kim*, and **M. P. Massett**. Strain-dependent metabolic phenotype responses to various exercise paradigms in inbred mice. *FASEB J.* 29: 665.1, 2015. (Presented at 2015 Experimental Biology, Boston, MA, 03/15)
49. **Masset, M. P.**, J. J. Avila*, and S. K. Kim*. Mouse strain dependent variation in exercise capacity and responses to training. (Presented at Complex Trait Community 14th Annual Meeting, Portland, OR, 06/15)
50. **Masset, M. P.**, J. J. Avila*, and S. K. Kim*. Mouse strain dependent variation in exercise capacity and responses to training. *FASEB J.* 30:1028.2, 2016. (Presented at 2016 Experimental Biology, San Diego, CA 3/16)
51. Vellers, H. L., J. T. Lightfoot, **M. P. Massett**, and S. R. Kleeberger. Association between mitochondrial DNA sequence and DNA damage with the response to endurance training in mice. (Presented at 2018 Southeast Chapter of American College of Sports Medicine Regional Meeting, Chattanooga, TN, 2/18)
52. **Masset, M. P.**, J. J. Avila*, and S. K. Kim*. Role of chromosome 14 in the genetic basis for endurance exercise capacity and responses to training in mice. *FASEB J.* 32 (Issue 1_supplement): 585.4, 2018 (Presented at 2018 Experimental Biology, San Diego, CA, 4/18)
53. Kim, H.* , M. Luttrell, S. Y. Shin*, D. Holly*, H. Dezell†, C. Woodman, and **M. Massett**. Heterogeneous effects of aging on vasomotor function in large and small arteries. *FASEB J.* 33 (Issue 1_supplement): 1b478, 2019 (Presented at 2019 Experimental Biology, Orlando, FL, 4/19)
54. Holly, D. S., H. Kim, S. Y. Shin*, H. Dezell†, C. Woodman, and **M. P. Massett**. Mouse genetic background influences endothelial function along the mouse vascular tree. *FASEB J.* 33 (Issue 1_supplement): 1b514, 2019 (Presented at 2019 Experimental Biology, Orlando, FL, 4/19)
55. Villalobos, A. R. and **M. P. Massett**. A simple PhUn week activity to teach integrative physiology of the heart and lung to first-graders (Presented at 2019 Experimental Biology, Orlando, FL, 4/19)

56. **Masset, M.**, H. Gibbs, S. Padgham, J. Chen, A. Yeh, D. Milewicz, and A. Trache. Cellular contractility and adhesion are impaired in vascular smooth muscle from *Acta2*^{-/-} mice. (Presented at 2019 Gulf Coast Vascular Research Consortium Meeting, Houston, TX, 8/19)
57. Bywaters, B. C., **M. P. Massett**, S. Padgham, J. Chen, G. M. Rivera, J. P. Trzeciakowski, D. M. Milewicz, and A. Trache. Extracellular matrix effect on integrin-based cell adhesion in smooth muscle alpha-actin deficient vascular smooth muscle cells (Presented at Biophysical Society 64th Annual Meeting, San Diego, CA, 02/20)
58. Bywaters, B. C., **M. P. Massett**, S. Padgham, J. Chen, G. M. Rivera, J. P. Trzeciakowski, D. M. Milewicz, and A. Trache. Loss of smooth muscle alpha-actin impairs cellular mechanosensing. (Scheduled for presentation at American Chemical Society National Meeting & Expo, Philadelphia, PA, 3/20)
59. Holly, D. S.*, **M. P. Massett**, S. Gaytan*, H. Kim*, S. Shin*, and C. Woodman. Genetic background influences endothelial function along the mouse vascular tree *FASEB J.* 34 Issue 1_ supplement), 2020 doi.org/10.1096/fasebj.2020.34.s1.05781 (Scheduled for presentation at 2020 Experimental Biology meeting, San Diego, CA, 04/20)
60. Khedmatgozar, H., **M. P. Massett**, M. Fokar, J. T. Lightfoot, S. R. Kleeberger, and H. L. Vellers. Influence of genetic background on heart mitochondrial DNA lesions and copy number in inbred mice. *Med. Sci. Sports Exerc.* 52 (S7): 1018, 2020. (Presented at 2020 ACSM Annual Meeting, San Francisco, CA 05/20)
61. Kim*, H., C. Matejka†, and **M. Massett**. A systematic review of exercise training protocols for mice. (Presented at 2020 APS Intersociety Meeting: Integrative Physiology of Exercise, 11/20).
62. Kim*, H., **M. P. Massett**, H. C. Gibbs, S. Padgham, A. Chattopadhyay, A. T. Yeh, D. M. Milewicz, and A. Trache. Downregulation of smooth muscle alpha-actin reduces contractility and interaction of vascular smooth muscle cells with the matrix. (Presented at American Chemical Society National Meeting & Expo, 4/9/21)
63. Holly*, D., H. Kim*, S. Gaytan, C. R. Woodman, and **M. P. Massett**. Genetic background influences endothelium-dependent vasomotor function in large arteries. *FASEB J.* 35 Issue S1, 2021 doi.org/10.1096/fasebj.2021.35.S1.02058 (Presented at 2021 Experimental Biology, 4/21)
64. Blume, G. B., A. B. Salmon, H. Liang, E. Fernandez, N. Musi, P. J. Hornsby, **M. P. Massett**, and H. L. Vellers. Intrastrain variation in exercise trainability is linked to changes in body weight in HET3 mice. *International Journal of Exercise Science: Conference Proceedings*: Vol. 11: Iss. 9, Article 1. <https://digitalcommons.wku.edu/ijesab/vol11/iss9/1> (Presented at Central States Chapter ACSM Annual Meeting, Fayetteville, Arkansas, 03/22)
65. Nino*, M., H. Kim*, and **M. P. Massett**. Response to endurance training using critical speed: influence of genetic background and exercise intensity. *FASEB J.* 36 Issue S1, 2022 doi.org/10.1096/fasebj.2022.36.S1.R6102 (Presented at 2022 Experimental Biology Meeting, Philadelphia, PA, 4/22)
66. Kim*, H., M. Nino*, and **M. Massett**. Contribution of genetic background to vascular adaptation to exercise training based on critical speed of different intensities. *FASEB J.* 36

Issue S1, 2022 doi.org/10.1096/fasebj.2022.36.S1.R5806 (Presented at 2022 Experimental Biology Meeting, Philadelphia, PA, 4/22)

67. Blume, G. B., A. B. Salmon, H. Liang, E. Fernandez, V. Villanueva, N. Musi, P. J. Hornsby, **M. P. Massett**, and H. L. Vellers. Intrastrain variation in exercise trainability is linked to changes in body weight in HET3 mice. (Presented at 2022 ACSM Annual Meeting, San Diego, CA 05/22)
68. Zhou, Z., K. Hughes, N. Saif, P. Pan, **M. P. Massett**, M. Zheng, A. C. Cecchi, D. Guo, J. M. Grealley, J. Wang, A. J. Marian, D. M. Milewicz. *MYH11* rare variant causes aberrant cardiac fibrosis and cardiac hypertrophy and failure with increased biomechanical stress in male mice. (To be presented at: International Vascular Biology Meeting, Oakland, CA, 10/22)

NOTE: * indicates graduate student authors, † indicates undergraduate student authors.

PRESENTATIONS/INVITED SEMINARS

February 1999, Departments of Physiology and Kinesiology, University of Minnesota, "Physical and chemical regulators of vascular tone and reactivity".

February 1999, Cardiology Unit, University of Rochester Medical Center, "Physical and chemical regulators of vascular tone and reactivity".

July 5, 2006, Department of Health and Kinesiology, Texas A & M University, "Genetic Basis for Exercise Training Responses".

August 31, 2006, Department of Exercise and Nutritional Sciences, SUNY at Buffalo, "Genetic Basis for Exercise Training Responses".

January 8, 2007, Department of Kinesiology, Kansas State University, "Genetic Basis for Exercise Performance: Responses to Exercise Training".

January 17, 2007, Cardiovascular Research Institute Seminar Series, University of Rochester, "Genetic Basis for Exercise Training Responses".

September 19, 2007, Department of Health and Kinesiology, Texas A & M University, "Vascular Function, Exercise, and Genetic Background"

September 24, 2008, Department of Health and Kinesiology Graduate Seminar Series, Texas A & M University, Panel Discussion: "Determining authorship on manuscripts in biomedical journals".

December 18, 2008, Cardiovascular Research Institute, Texas A & M University Health Science Center, "Genetic determinants of exercise training".

January 27. 2010, Obesity Outreach Weekly Conference, UT Southwestern program in Obesity, Diabetes, and Metabolic Research Outreach, "Exercise Genetics: Linking Mouse to Man".

October 26, 2011 Department of Health and Kinesiology, Texas A & M University, "Exercise Genetics: Linking Mouse to Man".

May 2, 2013, Cardiovascular Research Institute Research Symposium, Texas A & M University Health Science Center, "Effect of genetic background on vascular function".

November 12, 2015, Department of Health and Kinesiology Graduate Seminar Series, Texas A & M University, "Vascular Function, Exercise, and Genetic Background".

April 2, 2016, 3rd Annual Physiological Genomics Interest Group Research Conference, Experimental Biology 2016, "Mouse strain dependent variation in exercise capacity and responses to training".

TEACHING ACTIVITIES

Graduate/Medical School level courses

Texas Tech University (TTU)

KIN 5315, Research Methods I (3.0 CR), 2019-2021

- The course is designed to introduce students to the research process and to teach students to become good consumers and producers of research.

KIN 7301, Advanced Exercise Physiology I (3.0 CR), 2020

- Advanced study of mechanisms that regulate the cardiovascular and endocrine systems with application of physiological principles to understand responses and adaptations to exercise (Responsible for endocrine lectures).

KIN 7304, Advanced Topics in Exercise Physiology: Introduction to Exercise Genomics (3.0 CR), 2021

- The course is designed to introduce students to the basic principles of genetics and genomic analysis as they pertain to exercise physiology, health, and chronic disease associated with low levels of fitness.

KIN 7104: Exercise Physiology Seminar (1.0 CR), 2021

- This course is designed to provide students with a forum to discuss new research in exercise physiology by attending and organizing presentations.

Texas A&M University (Texas A&M) (Instructor of record for all)

KINE 601, Reading Research in Kinesiology (3.0 CR), 2009-2019

- The course is designed to help students develop basic skills in reading/understanding research publications in Kinesiology.

KINE 681, Exercise Physiology Graduate Seminar coordinator (1.0 CR), 2009, 2014

KINE 682, Genetics of Exercise (1.0 CR), 2008

- Reports and discussion of topics of current publications related to genetic influences on exercise capacity, training responses, and fitness.

KINE 682, Renin-Angiotensin System, Exercise and Genetics (1.0 CR), 2010

- Reports and discussion of topics of current publications related to polymorphisms in renin-angiotensin genes and their influence on exercise capacity, training responses, and fitness.

KINE 689, Introduction to Exercise Genetics (2.0 CR), 2009, 2010

- The course was designed to introduce students to the basic principles of genetics and genetic analysis as they pertain to exercise physiology, health, and chronic disease associated with low levels of fitness.

University of Rochester, PHP404, Pharmacology and Physiology: A disease-based approach II, Topic: Beneficial effects of exercise, Lecturer.

University of Rochester School of Medicine, Year 2 Case Seminar, Topic: Exercise and endothelial function, Lecturer.

New York Medical College, 683.2, Peripheral Circulation, Topic: Control of blood flow to active skeletal muscle, Lecturer.

Undergraduate level

Texas Tech University

KIN 3306, Applied Exercise Physiology (3.0 CR), 2020-2021

Texas A&M University (instructor of record for all)

KINE 433, Physiology of Exercise (3.0 CR), 2011 to 2019

KINE 485, Directed Studies (variable credit)

KINE 491, Undergraduate Research (variable credit)

University of Rochester

GEBS Summer Scholar Program, supervised undergraduate student research project.

Graduate Student Committees

Current Committee Chair:

Hyoseon Kim, Ph.D. candidate, Exercise Physiology, TTU

Matthew Nino, Ph.D. student, Exercise Physiology, TTU

Current Committee Member:

Song Yi Shin, Ph.D. candidate, KINE, Texas A&M

Mauricio Martinez, Ph.D. candidate, Exercise Physiology, TTU

Nigel Jiwan, Ph.D. student, Exercise Physiology, TTU

Yejin Kang, Ph.D. student, Exercise Physiology, TTU

Previous Committee Chair, Ph.D.:

2016 Joshua J. Avila, Ph.D., KINE, Texas A&M (Postdoctoral Fellow, US Army Institute of Surgical Research)

Dissertation: *Association Between Genetic Background and the Response to Exercise Training*

2015 Seung Kyum Kim, Ph.D., KINE, Texas A&M (Assistant Professor at Seoul National University of Science and Technology)

- Dissertation: *Genetic Regulation of Intrinsic Endothelial Function and Endothelial Responses to Exercise Training*
- 2013 Sean M. Courtney, Ph.D., KINE, Texas A&M (Research Scientist, Dept. of Nutrition Science, Purdue University)
- Dissertation: *Genetic Regulation of Intrinsic Endurance Exercise Capacity in Mice*

Previous Committee Chair, M.S.:

- 2022 Matthew Nino, M.S. (thesis), Integrative Exercise Physiology, TTU
- 2019 Stephen M. Snyder, M.S. (non-thesis), KINE, Texas A&M
- 2018 Ashley Heriot, M.S. (non-thesis), KINE, Texas A&M
Travis Stubbs, M.S. (non-thesis), KINE, Texas A&M
- 2017 Denisse Ferrer-Silveyra, M.S. (non-thesis) KINE, Texas A&M
- 2012 Wendy Gapinski, M.S. (non-thesis), KINE, Texas A&M
- 2011 Mayank Rao, M.S. (non-thesis), KINE, Texas A&M
Randall Walton, M.S. (non-thesis), KINE, Texas A&M
- 2010 Ivan Perreira, M.S. (non-thesis), KINE, Texas A&M
Jeffery M. Hord, M.S. (non-thesis), KINE, Texas A&M

Previous Committee Member:

- 2022 Arun Maharaj, Ph.D. Exercise Physiology, TTU
Dylan S. Holly, Ph.D., KINE, Texas A&M
- 2021 Casey Appell, M.S. Integrative Physiology, TTU
Fnu Arsalan Moinuddin, M.S. Exercise Physiology, TTU
- 2020 John W. Deaver, Ph.D., KINE, Texas A&M
Sarah E. Little, Ph.D., KINE, Texas A&M
- 2019 Ayland Letsinger, Ph.D., KINE, Texas A&M
Matthew McCullough, M.S. (non-thesis), KINE, Texas A&M
Shaik T. Ullah, M.S. (non-thesis), KINE, Texas A&M
- 2018 Rihana Bokhari, Ph.D., KINE, Texas A&M
Patrick Ryan, M.S. (non-thesis), KINE, Texas A&M
- 2017 Sara Safdari, M.S. (non-thesis), KINE, Texas A&M
Patrick B. Collins, Ph.D., KINE, Texas A&M
- 2016 Kevin Shimkus, Ph.D., KINE, Texas A&M
Christina Amo, M.S. (non-thesis), KINE, Texas A&M
Christian Browne, M.S. (non-thesis), KINE, Texas A&M
Michele M. Centineo, M.S. (non-thesis), KINE, Texas A&M
Matthew J. Dantism, M.S. (non-thesis), KINE, Texas A&M
Amber B. Holzman, M.S. (non-thesis), KINE, Texas A&M
Justus Schafer, M.S. (non-thesis), KINE, Texas A&M
Lance Yancy, M.S. (non-thesis), KINE, Texas A&M
- 2015 John Seawright, Ph.D., KINE, Texas A&M
Emily Schmitt, Ph.D., KINE, Texas A&M
Michelle Dawes, M.S. (non-thesis), GENE/KINE, Texas A&M

- 2014 Meredith Luttrell, Ph.D., KINE, Texas A&M
2013 David Ferguson, Ph.D., KINE, Texas A&M
2012 Brandon Macias, Ph.D., KINE, Texas A&M
2010 Daniel Trott, Ph.D., KINE, Texas A&M
Julie Vu, M.S. (non-thesis), KINE, Texas A&M
Molly Cernosek, M.S. (non-thesis), NUTR, Texas A&M
2009 Meredith Luttrell, M.S. (non-thesis), KINE, Texas A&M

Undergraduate/High School Research Students:

- 2020 Hannah Seo, Biochemistry, Texas Tech University
Caitlyn Majetka, KIN, Texas Tech University (TTU HSC Graduate School of Biomedical Sciences)
2019 Elizabeth Newton, MED High, Faculty Research Host, MENTORS Project, hosted high school student research intern for 6 weeks in summer Texas A&M University.
2019 Alexandra Thompson, HLKN, Texas A&M University
2018 - 19 Hannah Dezell, University Studies: Biomedical Sciences, Texas A&M University (Remote site monitor for PPD (Pharmaceutical Product Development))
2014 Christopher Holle, HLKN, Texas A&M University
2013 Brandon Elkert, HLKN, Texas A&M University
2013 Chelsey Burden, GENE (UNC at Greensboro, Program in Genetic Counseling)
2013 - 14 Jessica Floyd, HLKN, Texas A&M University (UTMB College of Medicine)
2012 - 14 Alexis Kinskey, BIMS, Texas A&M University
2012 - 13 Leslie Travino, HLKN, Texas A&M University
2011 - 12 Alyssa M. Concienne, NUTR, Texas A&M University (UTMB College of Nursing)
2011 - 12 Sarah C. Genzer, ANSC, Texas A&M University (TAMU College of Veterinary Medicine)
2009 - 10 Martha Pilar McKay, NUTR, Texas A&M University (Texas College of Osteopathic Medicine)
2007 Rebecca Alexander, GEBS Summer Scholar Program, University of Rochester (supervised undergraduate student research project, Berk lab.)

PROFESSIONAL SERVICE

Editorial and Reviewing Activities

Editorial Boards:

- 2010 to present Frontiers in Vascular Physiology
2010 to 2013 Frontiers in Genomic Physiology

Journal Review: *AGE/GeroScience, AJP: Heart Circulatory Physiology, AJP: Regulatory, Integrative, Comparative Physiology, British Journal of Pharmacology, BMC Genomics, Cardiovascular Research, Circulation, Circulation: Cardiovascular Genetics, Comparative Biology and Physiology, European Journal of Applied Physiology, Frontiers in Vascular Physiology, Genetics, Journal of Applied Physiology, Journal of Cardiovascular Translational*

Research, Journal of Vascular Research, Medicine and Science in Sports and Exercise, The Journal of Physiology, Physiological Genomics, Scientific Reports, Stress, Trends in Genetics,

Grant Review:

- 2022 NIOSH Member Conflict Review, *ad hoc* reviewer
- 2016 - 17 Catapult Grant, College of Education and Human Development, Texas A&M, reviewer
- 2015 - 17, NIOSH Safety and Occupational Health Study Section, *ad hoc* reviewer
- 2014 Texas A&M Nutrition & Obesity Research Center (TAMNORC) Pilot Project Grants, reviewer
- 2011 WSGI Catalyst Grant Program, Texas A&M University (\$100,000 total awarded to 10 PIs, 24 total applicants), Review Coordinator/Reviewer

Committee Membership

National/International:

- 2017 - 2022 Steering Committee, Physiological Genomics Interest Group, American Physiological Society (Newsletter Editor)
- 2013 - 2017 Awards Committee, Physiological Genomics Interest Group, American Physiological Society (Chair, 2014-2017)

University:

- 2013 - 2016 Member, Institutional Animal Care and Use Committee, Texas A&M University
- 2015 Member, Tier One Program (TOP) Proposals Evaluation Committee, Texas A&M University (TOP funds proposals designed to encourage interdisciplinary research and creative activities which improve the learning experience for undergraduate and graduate students.)
- 2009 - 2014 Member, Texas A&M Institute for Genome Sciences and Society (TIGSS) Internal Advisory Board, Texas A&M University
- 2010 - 2011 Member, Sydney and J.L. Huffines Institute for Sports Medicine and Human Performance Advisory Council, Texas A&M University
- 2010, -12, -13 Judge, Student Research Week, Texas A&M University
- 2010 - 2013 Reviewer, AFS Graduate Merit Fellowship awards, Texas A&M University
- 2007, 2013 Judge, Student Research Awards, TAMU HSC Cardiovascular Research Institute Research Retreat

College/Department:

Texas Tech

- 2021-present PhD Program Coordinator (KSM)
- 2020 PhD Qualifying exam committee (Chair)
- 2020 Awards Committee
- 2020, 2021 Kinesiology faculty search committee (KSM)

Texas A&M

- 2018 – 2019 Undergraduate curriculum committee, chair (HLKN/KINE)
2010-13, -16-18 Department of Health and Kinesiology (HLKN) representative, CEHD Council of Principal Investigators (CPI)
2012 -2017 HLKN TAMU A-1 review committee (Kinesiology Division), Chair 2014 - 2016
2011 Member, HLKN, Kinesiology Division A-1 revision committee
2008 - 2010 Member, HLKN, TAMU A-1 review committee, (research)

Previous Institutions

- 2005 - 2007 Member, Vivarium Committee (purpose: design new animal facility to be built for CVRI building), Cardiovascular Research Institute, University of Rochester
1992 - 1993 Student representative, Program Committee, Physiological Sciences Graduate Program, University of Arizona
1989 - 1990 Student representative, Graduate Student Advisory Council, Department of Exercise and Sport Sciences, University of Arizona
1989 - 1990 Student representative, Physical Activity Committee, Department of Exercise and Sport Sciences, University of Arizona
1988 Peer Advisor, School of Education, Syracuse University

Engagement/Community Service

- 2017, 2018 American Physiological Society PhUn Week, taught physiology to 1st grade class at Rock Prairie Elementary School, College Station, TX
2017 Telephone interview with undergraduate Kinesiology student from California State Fullerton for career research project
2016 Phi Epsilon Kappa, Texas A&M chapter (national professional honor fraternity) invited faculty speaker: exercise genetics and undergraduate research opportunities (10/3/2016).
2011 - present Faculty co-host, Mi Casa Es Su Casa Program, Memorial Student Center Committee for the Awareness of Mexican-American Culture, Texas A&M University
2011 Panel member, HLKN Graduate Student Organization "Lunch n' Learn" seminar: job interviews and negotiation of job offers
various dates Mentor, American Physiological Society/National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) Minority Travel Award program, 1999, 2002, 2004, 2012, 2013
2008 Judge, science fair, Harmony Science Academy, Bryan, TX 77802