



## CURRICULUM VITAE

Michael D. Roberts, PhD

## CONTACT INFORMATION

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## PROFESSIONAL EXPERIENCE

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- 2022-pres. Professor (tenured)  
School of Kinesiology  
Auburn University
- 2017-2022 Associate Professor (tenured)  
School of Kinesiology  
Auburn University
- 2013-2017 Assistant Professor  
School of Kinesiology  
Auburn University
- 2018-pres. Director, AU KINE Applied Performance Laboratory  
School of Kinesiology  
Auburn University
- 2014-pres. Affiliate Researcher  
Edward Via College of Osteopathic Medicine-Auburn University Campus
- 2013-pres. Director, Molecular and Applied Sciences Laboratory  
School of Kinesiology  
Auburn University
- 2010-2013 Postdoctoral Research Fellow  
Department of Biomedical Sciences (mentor: Frank W. Booth, Ph.D.)  
University of Missouri-Columbia

## EDUCATION

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- 2010      PhD, Exercise Physiology  
Department of Health and Exercise Sciences  
University of Oklahoma
- 2006      MEd, Exercise Physiology  
Department of Health, Human Performance and Recreation  
Baylor University
- 2003      BS, Biology (minor: Chemistry)  
College of Arts and Sciences  
Baylor University

## FIELD EXPERIENCE

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- 2004-2006      Certified Personal Trainer  
Gold's Gym International, Inc., Waco, TX  
Credential: Certified Strength and Conditioning Specialist (CSCS), National  
Strength and Conditioning Association

## RESEARCH SUPPORT

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### Summary

Total funding in grants, contracts and gifts directly procured as PI or co-I to date: \$4,009,593

Additional monies procured as critical co-I or mentor: \$206,645

- NIH T-32 Fellowship for mentee, *listed below*
- Porter Fellowship for mentee, *listed below*
- NIH T32, *listed below*  
(Competitive internal funding at MU; PI: Dr. Ronald Terjung from University of Missouri)
- MU CVM Grant, *listed below*  
(co-I; PI: Dr. Frank Booth from University of Missouri)

### Monies obtained

(listed from newest to oldest)

- 2022-23      Extramural Grant: A randomized, double-blind, placebo-controlled crossover clinical trial to determine the effects of Xtend Hydration on markers associated with hydration status and performance  
Funding Agency: Nutrabolt  
Total Costs (Direct + Indirect): \$157,153  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI

- 2022-23 Extramural Grant: Blood lactate recovery with non-invasive high flow ventilatory support  
Funding Agency: Vapotherm  
Total Costs (Direct + Indirect): \$91,000  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: co-PI (Bruce Gladden, co-PI)
- 2022-23 Extramural Grant: Effects of two different nutritional supplements on nutrient absorption in Caco-2 cells  
Funding Agency: Compound Solutions  
Total Costs (Direct + Indirect): \$55,000  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: co-PI (Brooks Mobley, co-PI)
- 2022-23 Extramural Grant: The Effects of Extracorporeal Magnetic Innervation (ExMI) on Myostatin and Vastus Lateralis Muscle  
Funding Agency: Edward Via College of Osteopathic Medicine, REAP Seed Grant  
Total Costs (Direct only): \$33,500  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: Auburn-site co-PI (Brooks Mobley, co-PI; Project PI: Beck, VCOM)
- 2022 Extramural Gift: N/A  
Donor: Bret Contreras  
Total Costs (Direct only): \$40,000  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI
- 2022 Extramural Gift: N/A  
Funding Agency: Lockwood, LLC  
Total Costs (Direct + Indirect): \$15,000  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI
- 2021-23 Pre-doctoral fellowship (G-RISE, T32): Mason McIntosh (recipient)  
Funding Agency: NIH  
Total Costs (Direct only): ~\$75,000  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PhD mentor to fellowship awardee
- 2021-22 Extramural Grant: Biomarker sub analysis  
Funding Agency: Center for Applied Health Sciences  
Total Costs (Direct + Indirect): \$63,000  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI

- 2020-21 Extramural Grant: Culture project using muscle and liver cells to examine the biological effects of different nutraceutical ingredients  
Funding Agency: FG Scientifica  
Total Costs (Direct + Indirect): \$41,000  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI
- 2020-21 Extramural Grant: Two aim project: 1) determining the efficacy of PeakO2 on weightlifting attributes, 2) determining the effects of Abscisic on glycemic control  
Funding Agency: Compound Solutions  
Total Costs (Direct only): \$77,632  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI
- 2020-21 Extramural Grant: Peanut protein supplementation to augment muscle growth and improve markers of muscle quality and health in younger individuals  
Funding Agency: The Peanut Institute Foundation  
Total Costs (Direct only): \$149,832  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: co-PI (co-PI: Dr. Kaelin Young from VCOM-Auburn; co-PI: Dr. Drew Fruge, Auburn University)
- 2019-21 Extramural Gift: N/A  
Donor: John Alkire  
Total Costs (Direct only): \$40,000  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI
- 2019-24 Extramural Gift: N/A  
Funding Agency: Compound Solutions  
Total Costs (Direct only): \$500,000  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI
- 2019-20 Extramural Contract: Muscle fiber typing and SDH analysis on mouse skeletal muscle  
Funding Agency: MyoKardia  
Total Costs (Direct+Indirect): \$24,915  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI
- 2019-20 Extramural Grant: Peanut protein supplementation to augment muscle growth and improve markers of muscle quality and health in older individuals  
Funding Agency: The Peanut Institute Foundation  
Total Costs (Direct only): \$174,916

Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: Auburn site PI (co-PI: Dr. Drew Fruge, Auburn University, co-I: Dr. Kaelin Young from VCOM-Auburn)

2019 Extramural Contract: Testing the effects of low and high dose NAD3 on the muscle transcriptome in vitro  
Funding Agency: Compound Solutions  
Total Costs (Direct+Indirect): \$64,326  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI

2019 Extramural Donation: [no title]  
Funding Agency: Emerging Sales  
Total Donation: \$33,000  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI

2019 Extramural Contract: Cross-over design to investigate the efficacy of HMB, BCAA and HMB-BCAA on markers of muscle damage.  
Funding Agency: Metabolic Technologies, Inc.  
Total Costs (Direct+Indirect): \$89,845  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI

2018-19 Extramural Contract: Serum Biomarker Analysis  
Funding Agency: University of Mary Hardin-Baylor  
Total Costs (Direct+Indirect): \$17,848  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI

2018-19 Pre-doctoral fellowship: Matthew Romero (recipient)  
Funding Agency: American Physiological Society  
Total Costs (Direct only): \$28,000  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PhD mentor to fellowship awardee

2018-21 Extramural Grant-in-Aid: Examining the effects of skeletal muscle LINE-1 overexpression on muscle function and aging.  
Funding Agency: Florida A&M University  
Total Costs (Direct only): \$135,000  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI

2018-19 Extramural Contract: In vitro analyses for gene expression in PBMCs and muscle cells.  
Funding Agency: Center for Applied Health Sciences

- Total Costs (Direct+Indirect): \$35,871  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI
- 2018-19 Extramural Grant: Examining the effects of skeletal muscle LINE-1 overexpression on muscle function and aging.  
Funding Agency: Via College of Osteopathic Medicine  
Total Costs (Direct only): \$36,000  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: co-PI (co-PI: Dr. Kaelin Young from AU-VCOM)
- 2018-19 Extramural Contract: A prospective, randomized, double-blind, placebo-controlled, parallel group study on effects of a multiple vitamin/mineral/omega-3 fatty acid supplement on nutrient status/functionality, subjective perception of mood/energy/mental/skin health, and gene expression in adult women.  
Funding Agency: Ritual  
Total Costs (Direct+Indirect): \$292,400  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: co-PI (co-PI: Dr. Kaelin Young from AU-VCOM, co-I: Dr. Rusty Arnold from Harrison School of Pharmacy at AU)
- 2018 Extramural Contract: Service contract for serum irisin and PICP analyses.  
Funding Agency (Direct+Indirect): Applied Sports Science Institute  
Total Costs: \$5,986  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI
- 2018 Extramural Contract: Detecting muscle tissue and bone mineral content loss, growth, and maintenance at the cellular, segmental, and total-body level using bioimpedance spectroscopy using the SOZO and SFB7 devices.  
Funding Agency (Direct+Indirect): Impedimed  
Total Costs: \$53,750  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: co-PI (co-PI: Dr. Kaelin Young from AU-VCOM)
- 2018 Extramural Grant in Aid: Laboratory Development Award  
Funding Agency: Edward Via College of Osteopathic Medicine - Auburn Campus  
Total Costs (Direct only): \$10,000  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: co-PI (co-PI: Dr. Kaelin Young from AU-VCOM)
- 2017-18 Extramural Gift/Donation: Laboratory Development Award  
Funding Agency: Renaissance Periodization  
Total Donation: \$25,000  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: co-PI (co-PI: Cody Haun, M.S.)

- 2017-18      Intramural Contract: Effects of dietary exosomes on muscle hypertrophy  
Funding Agency: Auburn University's Intramural Grant Program  
Total Costs (Direct only): \$60,000  
Role: co-PI (co-PI: Andreas Kavazis, co-I: Kaelin Young)
- 2017          Extramural Contract: Effects of ketone salt ingestion on blood ketones and  
metabolic phenomena in humans  
Funding Agency: Applied Sports Science Institute  
Total Costs (Direct+Indirect): \$39,343  
Role: PI
- 2016          Extramural Gift/Donation: Laboratory Development Award  
Funding Agency: FutureCeuticals  
Total Donation: \$30,000  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI
- 2016          Extramural Contract: The effects of different ingredients on cGMP and nitric  
oxide production in HUVEC cells  
Funding Agency: Purity Products  
Total Costs (Direct + Indirect): \$15,000  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI
- 2016          Extramural Contract: The effects of phosphatidic acid on myoblast properties  
Funding Agency: ChemiNutra  
Total Costs (Direct + Indirect): \$7,400  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI
- 2016          Extramural Gift/Donation: Laboratory Development Award  
Funding Agency: Bionutritional Research Group and Hilmar Ingredients  
Total Donation: \$146,000  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI (co-I, Dr. Chris Lockwood)
- 2016          Extramural Contract: The effects of curcumin on nutritionally-induced non-  
alcoholic fatty liver disease and non-alcoholic steatohepatitis.  
Funding Agency: DolCas Biotech, LLC  
Total Costs (Direct + Indirect): \$129,560  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: co-I (PI: Dr. Jeffrey Martin from AU-VCOM)
- 2016          Extramural Contract: The effects of Red Spinach Extract on variables related to  
blood flow and exercise performance (Part II)

- Funding Agency: DolCas Biotech, LLC  
Total Costs (Direct + Indirect): \$10,339  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: co-I (PI: Jeffrey Martin from AU-VCOM)
- 2016 Extramural Contract: Effects of a novel plant extract on cycling performance, hemodynamics and markers of red blood cell physiology.  
Funding Agency: FutureCeuticals  
Total Costs (Direct + Indirect): \$135,606  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: co-PI (co-PI: Dr. Kaelin Young from AU-VCOM, co-PI: Dr. Jeffrey Martin from AU-VCOM)
- 2016 Extramural Contract: [no title], contract to assist in the dissemination of research.  
Funding Agency: University of Mary Hardin-Baylor  
Total Costs (Direct + Indirect): \$1,600  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI
- 2015-16 Extramural Contract: Effect of various ingredients on skeletal muscle Irisin signaling and cross talk with adipose tissue.  
Funding Agency: Maximum Human Performance (MHP)  
Total Costs (Direct + Indirect): \$73,575  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI
- 2015-16 Extramural Contract: Effects of aging and nutrition on various physiological systems.  
Funding Agency: University of Tampa and Human Longevity, Inc.  
Total Costs (Direct + Indirect): \$231,000  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI
- 2015 Extramural Contract: [no title], contract to assist in the dissemination of research.  
Funding Agency: University of Mary Hardin-Baylor  
Total Costs (Direct + Indirect): \$2,400  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI
- 2015 Extramural Contract: [no title], contract to assist in the dissemination of research.  
Funding Agency: University of Mary Hardin-Baylor  
Total Costs (Direct + Indirect): \$1,600  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI

- 2015 Extramural Contract: The effects of Red Spinach Extract on variables related to blood flow and exercise performance.  
Funding Agency: DoICas Biotech, LLC  
Total Costs (Direct + Indirect): \$28,022  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: co-I (PI: Jeffrey Martin from AU-VCOM)
- 2015-2016 AU-VCOM Seed Grant: The role of target inflation pressures on skeletal muscle gene expression and the efficacy of a peristaltic pulse external pneumatic compression device as an adjuvant to exercise training.  
Funding Agency: Edward Via College of Osteopathic Medicine - Auburn Campus  
Total Costs (Direct only): \$30,318  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: co-I (PI: Jeffrey Martin from AU-VCOM)
- 2015 Extramural Contract: Effects of various ingredients on skeletal muscle Irisin signaling.  
Funding Agency: Maximum Human Performance (MHP)  
Total Costs (Direct + Indirect): \$9,600  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI
- 2014-15 Extramural Sub-contract: Effect of a subchronic ketogenic diet on skeletal muscle anabolic and catabolic signaling as well as adipose tissue signaling  
Funding Agency: University of Tampa  
Total Costs (Direct + Indirect): \$105,000  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI
- 2014-15 Extramural Donation: Laboratory Development Award  
Funding Agency: 4Life Research, Inc (collaborative efforts with Dr. Chris Lockwood)  
Total Donation: \$100,000  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI
- 2015 Extramural Contract: Effects of Proprietary Weight Loss Supplement on Resting Metabolism  
Funding Agency: MusclePharm, Corp.  
Total costs (Direct+Indirect): \$47,882  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI
- 2014-15 Extramural Contract: Effects of a branched-chain amino acid-carbohydrate-electrolyte solution on muscle damage during one week of rigorous training  
Funding Agency: MusclePharm, Corp.

Total Costs (Direct + Indirect): \$89,000  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI

- 2014 Extramural Contract: Myostatin, follistatin, and cytokine array assessment in human serum samples  
Funding Agency: University of Tampa  
Total Costs (Direct + Indirect): \$8,800  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI
- 2014 Extramural Contract: Effects of pneumatic compression therapy on molecular markers of muscle metabolism  
Funding Agency: Quinnipiac University  
Total Costs (Direct + Indirect): \$13,500  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI
- 2014 Extramural Contract Part 1: Studying the efficacy of 'BCAA 3.1.2' on cycling performance, body composition, and immune system markers in elite cyclists over a training season; Part 2: Studying the effects of 'Combat' on post-exercise muscle-building mechanisms using a human-applicable rat model  
Funding Agency: MusclePharm, Corp.  
Total Costs (Direct + Indirect): \$61,117  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI
- 2014 Extramural Contract: Effect of Myo-X and Arachidonic acid on Intramuscular Markers of Skeletal Muscle Anabolism  
Funding Agency: sub-contract from University of Tampa  
Total Costs (Direct + Indirect): \$16,995  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI
- 2014 Extramural Contract: Effect of Different Protein Blends on Intramuscular Markers of Skeletal Muscle Anabolism  
Funding Agency: Axiom Foods, Inc.  
Total Costs (Direct + Indirect): \$35,632  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI
- 2013-14 Extramural Donation: Laboratory Development Award  
Funding Agency: 4Life Research, Inc (collaborative efforts with Dr. Chris Lockwood)  
Total Donation: \$100,000  
Site: Molecular and Applied Sciences Laboratory, Auburn University

Role: PI

- 2013 Extramural Donation: Effects of transfer factors and adaptogen blends on oxidative stress in rats fed a high fat diet  
Funding Agency: 4Life Research, Inc  
Total Donation: \$49,230  
Site: Booth Laboratory, University of Missouri  
Role: PI
- 2012 Fellowship: T32 Postdoctoral Fellowship  
Funding Agency: National Institutes of Health  
Total costs: \$40,645 (estimated)  
Site: Booth Laboratory, University of Missouri  
Role: awarded from internal institutional committee for 1-year of postdoctoral salary (PI: Dr. Ronald Terjung from University of Missouri)
- 2012 Extramural Donation: Effects of an oral ATP supplement on blood flow during exercise in rats  
Funding Agency: TSI Health Sciences  
Total Donation: \$10,000  
Site: Booth Laboratory, University of Missouri  
Role: PI
- 2012 Extramural Donation: Effects of different whey protein forms on the post-prandial serum metabolome in rats  
Funding Agency: Bionutritional Research Group  
Total Donation: \$42,000  
Site: Booth Laboratory, University of Missouri  
Role: PI
- 2012 Intramural Grant: University of Missouri College of Veterinary Medicine  
Grant  
Title: Molecular determinants of running motivation in rats selectively bred to run high versus low nightly distances  
Funding Agency: College of Veterinary Medicine, University of Missouri  
Total costs (Direct only): \$18,000  
Site: Booth Laboratory, University of Missouri  
Role: co-I and Project Coordinator (PI: Dr. Frank Booth from University of Missouri)
- 2011-2012 Extramural Donation: Effects of a proprietary whey protein hydrolysate on mammalian physiological systems  
Funding Agency: Scivation Inc.  
Total Donation: \$100,000 over a 1.5-year period for personnel support and study supplies  
Site: Booth Laboratory, University of Missouri

Role: PI

- 2007      Doctoral Research Award: The Effects of Aging on the Phosphocreatine System  
Funding Agency: National Strength and Conditioning Foundation  
Total costs (Direct only): \$5,000  
Site: Applied Biochemistry and Molecular Physiology Laboratory, University of Oklahoma  
Role: PI

### **Grants in review**

- 2022      Extramural Grant: Effects of a Tonal Resistance Exercise Bout on Muscle Protein Synthesis  
Funding Agency: Tonal  
Total costs (Direct + Indirect): \$50,000  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI

### **Grants applied for, but not funded**

- 2022      Extramural Grant: Peanut-rich diet to attain and sustain weight loss for breast cancer risk reduction and improved mitochondrial and metabolic health in postmenopausal women  
Funding Agency: The Peanut Institute  
Total costs (Direct only): \$248,780  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: co-PI
- 2022      Extramural Grant: Effects of Tonal Training System on muscle remodeling and strength during COVID-19 era: A randomized controlled non-inferiority trial  
Funding Agency: Tonal  
Total costs (Direct only): \$50,000  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI
- 2021      Extramural Grant: Peanut protein supplementation to improve body composition and metabolic health in postmenopausal women  
Funding Agency: The Peanut Institute  
Total costs (Direct only): \$249,179  
Site: Molecular and Applied Sciences Laboratory, Auburn University  
Role: PI
- 2019      National Institutes of Health R01 Grant: Determining if mitochondrial dysfunction plays a greater role in the pathophysiology of endothelial function in African Americans versus Caucasians

- Funding Agency: National Institutes of Health  
Amount requested for Auburn-Roberts: \$257,000 (\$3,671,400 total)  
Role: co-I (PI: Dr. Mike Brown from Auburn University)  
Comments: not scored
- 2016 National Institutes of Health R01 Grant: Dietary exosomes regulate muscle protein accretion in pigs  
Funding Agency: National Institutes of Health  
Amount requested for Roberts laboratory: \$150,000 total over 2 years  
Roberts's Role: co-I (PI: Dr. Janos Zemleni, University of Nebraska)  
Comments: not scored
- 2016 National Institutes of Health U01 Grant: Molecular Transducers of Exercise  
Funding Agency: National Institutes of Health  
Title: Acute and chronic molecular transducers to endurance/resistance physical training  
Amount requested for Auburn-Roberts: \$1,156,927  
Role: Auburn site PI (PI: Dr. Frank Booth from University of Missouri)  
Comments: scored, but not funded
- 2015 American Diabetes Association Innovative Clinical of Translational Science Grant  
Funding Agency: American Diabetes Association  
Amount requested for Auburn-Roberts: \$566,003  
Role: Auburn site PI (PI: Dr. Martin from AU-VCOM)  
Comments: not scored, resubmitted in 2016 with edits and additional pilot data and procured funding
- 2014 AU Intramural IGP Grant: Establishing guidelines for step-count programs and understanding program adherence decisions  
Amount requested: \$54,404  
Role: co-I (PI: Dr. Matthew Miller from Auburn University)  
Comments: scored, but not funded
- 2014 Extramural Grant: Examining the synergistic effects of creatine and leucine on muscle anabolic and catabolic signaling in C2C12 myotubes concurrently treated with 'youth-like' and 'elderly-like' concentrations of testosterone  
Funding Agency: International Society of Sports Nutrition  
Amount requested: \$10,000  
Role: Principal Investigator  
Comments: scored, but not funded
- 2011 MU Intramural Grant: University of Missouri Institute for Clinical and Translational Sciences Grant

Title: The effects of abruptly stopping daily physical activity on skeletal muscle circadian genes and downstream metabolic genes  
 Amount requested: \$10,000  
 Role: Principal Investigator  
 Comments: scored, but not funded

2011 MU Intramural Grant: University of Missouri College of Veterinary Medicine Grant  
 Title: Molecular determinants of running motivation in rats selectively bred to run high versus low nightly distances  
 Funder: College of Veterinary Medicine, University of Missouri  
 Amount requested: \$18,000  
 Role: co-I (PI: Dr. Frank Booth from University of Missouri)  
 Comments: scored, but not funded; resubmitted with edits in 2012 and procured funding

2010 National Institutes of Health F32 NRSA Postdoctoral fellowship Grant  
 Title: Adipose tissue-endothelial cell communication  
 Amount requested: \$144,209  
 Role: Principal Investigator  
 Comments: original submission scored in the 36<sup>th</sup> percentile; resubmission not scored

## PUBLICATION IMPACT

### 2004-2022

#### Google Scholar

h-index: 46  
 i-10 index: 136  
 Total citations: 7,177

*Note that these metrics only include peer-reviewed journal articles; abstracts have been manually removed; account checked weekly to ensure veracity*

#### ResearchGate

h-index: 38  
 Total citations: 5,021  
 Publication reads: ~115,000

*Note that these ResearchGate metrics include peer-reviewed journal articles as well as published scientific abstracts; account checked weekly to ensure veracity*

#### Scopus

h-index: 31  
 Total citations: 3,771

Note that these metrics only include peer-reviewed journal articles and select book chapters, but do not include published scientific abstracts (e.g., EB abstracts in FASEB J or ACSM abstracts in MSSE); account checked weekly to ensure veracity

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## SCHOLARLY CONTRIBUTIONS

### Original peer-reviewed research articles in PubMed-indexed journals

- listed from newest to oldest

- \*, indicates Roberts is corresponding or co-corresponding author

1. Mesquita P, Osburn S, Godwin J, **Roberts M**, Kavazis A. Effects of aging and long-term physical activity on mitochondrial physiology and redox state of the cortex and cerebellum of female rats. Accepted and in press at *Phys Reports*, 2022.
2. Smith K, Morris M, Morrow C, Novak J, **Roberts M**, Fruge A. Associations between Changes in Fat-Free Mass, Fecal Microbe Diversity, and Mood Disturbance in Young Adults after 10-Weeks of Resistance Training. *Microorganisms* 10(12), 2022.
3. Ruple B, Mesquita P, Godwin J, Sexton C, Osburn S, McIntosh M, Kavazis A, Libardi C, Young K, **Roberts M\***. Changes in vastus lateralis mean fiber cross-sectional area, pennation angle, and fascicle length do not predict changes in whole muscle cross-sectional area. *Exp Physiol*. doi: 10.1113/EP090666 (online ahead of print), 2022. PMID: 36053170
4. Osburn S, Mesquita P, Neal F, Rumbley M, Holmes M, Ruple B, Mobley CB, Brown M, McCullough D, Kavazis A, **Roberts M\***. Long-term voluntary wheel running effects on markers of Long Interspersed Nuclear Element-1 in skeletal muscle, liver, and brain tissue of female rats. *AJP Cell Physiol*. doi: 10.1152/ajpcell.00234.2022 (online ahead of print), 2022. PMID: 35938680
5. Osburn S, Romero M, Roberson P, Mumford P, Wiggins D, McAdam J, Drummer D, Bridges Jr. S, Bamman M, **Roberts M\***. Effects of end-stage osteoarthritis on markers of skeletal muscle Long Interspersed Element-1 activity. *BMC Res Notes* 15(1):245, 2022. PMID: 35799274
6. Ruple B, Smith M, Osburn S, Sexton C, Godwin J, Edison J, Poole C, Stock M, Fruge A, Young K\*, **Roberts M\***. Comparisons between skeletal muscle imaging techniques and histology in tracking midhigh hypertrophic adaptations following 10 weeks of resistance training. *J Appl Physiol*. doi: 10.1152/jappphysiol.00219.2022 (online ahead of print), 2022. PMID: 35771220
7. Yap K, Wong H, Ramanathan C, Rodriguez-Wagner C, van Bruggen N, **Roberts M**, Freeman D, Buffenstein R, Zhang Y. Naked mole-rat and Damaraland mole-rat exhibit lower respiration in mitochondria, cellular and organismal levels. *Bioenergetics* 1863(7):148582, 2022. PMID: 35667393

8. Moore J, Smith K, Chen D, Lamb D, Smith M, Osburn S, Ruple B, Morrow C, Huggins K, McDonald J, Brown M, Young K, **Roberts M**, Fruge A. Exploring the effects of six weeks of resistance training on the fecal microbiome of older adult males. *Sports (MDPI)* 10(5): 65, 2022. PMID: 35622473
9. Vann C, Sexton C, Osburn S, Smith M, Haun C, Rumbley M, Mumford P, Montgomery N, Ruple B, McKendry J, McLeod J, Bashir A, Beyers R, Beck D, Brook M, Smith K, Atherton P, Beck D, McDonald J, Young K, Phillips S, **Roberts M\***. Effects of high-volume versus high-load resistance training on skeletal muscle growth and molecular adaptations. *Frontiers Physiol* 13:857555, 2022. PMID: 35360253
10. McAdam J, Lyons K, Beck D, Haun C, Romero M, Mumford P, Roberson P, Young K, Lohse K, **Roberts M**, Sefton J. Effects of whey protein supplementation on body composition, performance, and blood biomarkers during Army Initial Entry Training. *Frontiers Nutr* 9:807928, 2022. PMID: 35330708
11. **Roberts M\***, Osburn S, Godwin J, Ruple B, La Monica M, Raub B, Sandrock J, Ziegenfuss T, Lopez H. ENHANCE Trial: Effects of NAD3® on hallmarks of aging and clinical endpoints of health in middle aged adults: a subset analysis focused on blood cell NAD<sup>+</sup> concentrations and lipid metabolism. *Physiological (MDPI)* 2(1), 20-31, 2022.
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13. Fox C, Mesquita P, Godwin J, Ruple B, Brown M, Kavazis A, Young K, Ugrinowitsch C, Libardi C, **Roberts M\***. Frequent manipulation of resistance training variables promotes myofibrillar spacing changes in resistance-trained individuals. *Frontiers Physiol* 12:773995, 2021. PMID: 34975527
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192. Sexton C, Godwin J, McIntosh M, Ruple B, Osburn S, Hollingsworth B, Kontos N, Agostinelli P, Kavazis A, Ziegenfuss T, Lopez H, Smith R, Young K, Dwaraka V, Fruge A, Mobley C, Sharples A\*, **Roberts M\***. Skeletal muscle DNA methylation and mRNA responses to a higher- versus lower-load resistance exercise bout in previously trained men. Comments: In review at *Cells (MDPI)*.
193. Fonseca P, Ide B, Oranchuk D, Marocolo M, Simim M, **Roberts M**, Mota G. Comparison of Traditional and Advanced Resistance Training Systems on Muscle Hypertrophy in Resistance-Trained Individuals: A Systematic Review, Meta-Analysis, and Critical Evaluation of the Literature. Comments: In review at *Scand J Med & Sci in Sports*.
194. Yap K, Yamada K, Zikeli S, Zhang Y, Zhang Y, Naderi A, Soltanmohammadi E, Kavazis A, **Roberts M**, Kiaris H, Hood W. Variations in cellular unfolded protein response, respiratory capacity, and stress tolerance in skin and lung fibroblasts of deer mice (*Peromyscus maniculatus*). Comments: In review at *Journal of Comparative Physiol B*.

195. Reece T, Godwin J, Strube M, Ciccone A, Stout K, Pearson J, Vopat B, Gallagher P, **Roberts M**, Herda T. The effects of low intensity resistance training with blood flow restriction on myofiber hypertrophy in males and females. Comments: In review at *J Appl Physiol*.
196. **Roberts M\***, McCarthy J, Hornberger T, Phillips S, Mackey A, Nader G, Boppart M, Kavazis A, Reidy P, Ogasawara R, Libardi C, Ugrinowitsch C, Booth F, Esser K\*. A comprehensive narrative on mechanisms associated with mechanical overload-induced skeletal muscle hypertrophy. Comments: In review at *Physiol Rev*.

### Articles in preparation

(\*, indicates Roberts corresponding author or co-corresponding author)

197. Ruple B, Plotkin D, Smith M, Godwin J, Sexton C, McIntosh M, Kontos N, Beausejour J, Pagan J, Rodriguez J, Sheldon D, Libardi C, Young K, Stock M, Roberts M. The effects of near volitional fatigue resistance training muscle hypertrophy, strength, and neuromuscular properties in previously trained adults. Comments: preliminary draft written and will be submitted for review to *Eur J Appl Physiol* in 2023.
198. Fox C, Vann C, Parry H, Ruple B, Osburn S, Sexton C, Moore J, Smith M, Ferguson B, Mesquita P, Beck D, Kavazis A, Young K, **Roberts M\***. Skeletal muscle metabolic biomarker adaptations to high load versus high volume unilateral resistance training. Comments: preliminary draft written and will be submitted for review to *Physiol Reports* in 2023.
199. Michel JM, Plotkin D, Godwin J, Mesquita P, Ruple B, McIntosh M, Libardi C, Kavazis A, Roberts M. Mechanisms associated with a gain and loss of leg muscle mass with resistance training followed by high-intensity interval training. Comments: preliminary draft written and will be submitted for review to *Phys Reports* in 2023.
200. McIntosh M, Sexton C, Godwin J, Ruple B, **Kontos N**, Ziegenfuss T, Lopez H, Smith R, Dwarka V, Sharples A, Vann C, Roberts M. Different resistance exercise loading paradigms similarly affect the methylation status, mRNA expression, and protein levels of myostatin-related genes in skeletal muscle. Comments: preliminary draft written and will be submitted for review to *Phys Reports* in 2023.
201. Rightmire Z, Agostineli P, Murrain M, Roper J, **Roberts M**, Sefton J. Acute high intensity interval training improves eSport performance in Super Smash Brothers Ultimate competitors. Comments: preliminary draft written and will be submitted for review to *SAGE Journal of Gaming and Culture* in 2023.
202. Godwin J, Plotkin D, McIntosh M, Sexton C, Smith M, Ruple B, Michel J, Candow D, Forbes S, Fruge A, Young K, Mobley CB, Libardi C, Roberts M. Sarcolemmal membrane-associated proteome adaptations following 10 weeks of resistance training in previously untrained younger female adults. Comments: preliminary draft written and will be submitted for review to *J Physiol* in 2023.

## Book Chapters

1. **Roberts M**, Defreitas J. Chapter 6: Measures of Neuromuscular Function. *Neuromethods*. Atherton P and Wilkinson D (Eds). Springer Nature (first draft complete, to be released, 2022)
2. **Roberts M**, McKurdy K. Chapter 5: Resistance training adaptations. *Essentials of Personal Training* (3<sup>rd</sup> Ed.). Schoenfeld B (Ed). Human Kinetics (2021)
3. **Roberts M**, Haun C. Chapter 2: Bioenergetics. *The Professional's Guide to Strength and Conditioning*. Nesser T (Ed). BYU Academic Publishing: Provo, UT (2020)
4. Quindry J, **Roberts M**. Chapter 14: Endurance Phenotype Primer. *The Routledge Handbook of Sport and Exercise Systems Genetics*. Lightfoot T, Roth S, Hubal M (Eds). Taylor & Francis: Abingdon-on-Thames (2019)
5. **Roberts M**, Dalbo V, Buford T. Training and Nutrition Needs of the Older Strength / Power Athlete. *Nutrition and Performance in Masters Athletes*. Reaburn P (Ed). CRC Press: New York, NY (2014)
6. Dalbo V, **Roberts M**. Ergogenic Aids for Masters Athletes. *Nutrition and Performance in Masters Athletes*. Reaburn P (Ed). CRC Press: New York, NY (2014)
7. **Roberts M**, Company J, Campbell B. Fatty acid supplements. *Sports Nutrition: Enhancing Sports Performance*. Campbell B (Ed). CRC Press: New York, NY (2013)
8. Taylor L, **Roberts M**. Introduction: The Role of the Training Table. *Nutritional Guidelines for Athletic Performance: The Training Table*. Taylor L (Ed). CRC Press: New York, NY (2012)
9. **Roberts M**. Calorie Needs for Inducing Muscle Hypertrophy in *Nutritional Guidelines for Athletic Performance: The Training Table*. Taylor L (Ed). CRC Press: New York, NY (2012)
10. Dalbo V, **Roberts M**. Calorie needs for improving body composition in *Nutritional Guidelines for Athletic Performance: The Training Table*. Taylor L (Ed). CRC Press: New York, NY (2012)
11. **Roberts M**, Kerksick C. Vitamins/Minerals: Invaluable Cellular Components for Optimal Physiological Function. *Nutrient Timing: Metabolic Optimization for Health, Performance and Recovery*. Kerksick C (Ed). CRC Press: New York, NY (2011)

## Non-refereed ('mainstream') publications

1. **Roberts M.** Exercise in a pill: are we there yet? [www.bodybuilding.com](http://www.bodybuilding.com). 2019
2. **Roberts M.** Are my genes to blame? [www.fitnesspudding.com](http://www.fitnesspudding.com). 2013
3. **Roberts M.** My favorite pre-workout stack. [www.scivation.com](http://www.scivation.com). 2011
4. Lockwood C, **Roberts M**, Feliciano J, and Stoppani J. Supplements: the next generation. *Muscle and Fitness*: 70(5), May 2009.
5. **Roberts M** and Dalbo V. Creatine: white meat or water weight? *Body of Science* 2(2), 2008.
6. **Roberts M.** Arachidonic acid: the new mass builder. [www.bodybuilding.com](http://www.bodybuilding.com). 2008
7. **Roberts M.** and Llewellyn B. Arachidonic acid: the new mass builder. *Muscular Development*. December 2007

## COURSES TAUGHT

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### Undergraduate Courses

- |            |  |
|------------|--|
| 2013-2015  | KINE 4630, NSCA CSCS Prep Course<br>Auburn University, School of Kinesiology   |
| 2015-pres. | KINE 3873, Legal and Illegal Sports Supplements  |
| 2013-2014  | KINE 4600, Strength Development<br>Auburn University, School of Kinesiology  |
| 2006-2010  | HES 4873, Principles of Strength and Conditioning<br>University of Oklahoma, Dept of Health and Exercise Science     |
| 2009       | HES 1823, Scientific Principles of Health and Disease<br>University of Oklahoma, Dept of Health and Exercise Science |
| 2009       | HES 3873, Principles of Personal Training<br>University of Oklahoma, Dept of Health and Exercise Science             |

### Graduate Courses

- |            |   |
|------------|---|
| 2022-pres. | KINE 7010, Research Methods in Physical Activity and Health<br>Auburn University, School of Kinesiology |
| 2021       | KINE 6600, Physiological Basis of Training<br>Auburn University, School of Kinesiology                  |

- 2019-pres. KINE 8770, Neuromuscular Physiology  
Auburn University, School of Kinesiology
- 2016-pres. KINE 7710, Advanced Laboratory Techniques  
Auburn University, School of Kinesiology
- 2015-pres. KINE 8970, Nutrient Timing for Performance Optimization  
Auburn University, School of Kinesiology
- 2015-pres. KINE 8270, Exercise Genetics  
Auburn University, School of Kinesiology
- 2014 KINE 8970, Special Topics: Molecular Exercise Science  
Auburn University, School of Kinesiology
- 2011, 2013 MPP 9435 (co-taught, directed by Frank Booth, PhD), Skeletal Muscle  
University of Missouri, Dept of Biomedical Sciences
- 2008 HES 5000 (co-taught), Exercise and Nutritional Biochemistry  
University of Oklahoma, Dept of Health and Exercise Science

### **Medical School Courses (Auburn Via College of Osteopathic Medicine)**

- 2018 Five Lectures in the Cellular Physiology Block (Membrane Transport; Cellular Signaling I/II; TCA cycle; Oxidative phosphorylation)

## **MENTORSHIP**

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### **Past PhD students of whom I served as primary mentor (13)**

- Morgan Smith, PhD 2019-2022  
- Current position: Postdoctoral Fellow; Stanford University  
(Mentor: Michael Snyder)
- Casey Sexton, PhD 2019-2022  
- Current position: Postdoctoral Fellow; University of Florida  
(Mentor: Karyn Esser)
- Shelby Osburn, PhD 2018-2022  
- Current position: Postdoctoral Fellow; Colorado State University  
(Mentor: Tom La Rocca)
- Carlton Fox, PhD 2018-2021  
- Current position: Assistant Professor, St. Regis University
- Johnathon Moore, PhD 2018-2021  
- Current position: Research Associate, Life University

- Christopher Vann, PhD 2017-2020  
 - Current position: Postdoctoral Fellow; Duke University Medical School  
 (Mentors: Dr. Virginia Kraus and Dr. Bill Kraus)
- Petey Mumford, PhD 2015-2019  
 - Current position: Assistant Professor, Lindenwood University
- Matt Romero, PhD 2016-2019  
 - Current position: Postdoctoral Fellow; University of California, Los Angeles  
 (Mentor: Dr. April Pyle)
- Paul Roberson, PhD 2016-2019  
 - Post-PhD position: Postdoctoral Fellow; Pennsylvania State University, Medical School  
 (Mentor: Dr. Scot Kimball)  
 - Current position: Postdoctoral Fellow; University of Colorado School of Medicine  
 (Mentor: Dr. Paul MacLean)
- Cody Haun, PhD 2015-2018  
 - Post-PhD position: Assistant Professor, LaGrange College  
 - Current Position: CEO, Fitomics, Inc.
- C. Brooks Mobley, PhD 2013-2017  
 - Post-PhD position: Postdoctoral Fellow; University of Kentucky, Medical School  
 (Mentor: Dr. John J. McCarthy)  
 - Current position: Asst. Clinical Professor; Auburn University, School of Kinesiology
- Wesley Kephart, PhD 2014-2017  
 - Current position: Associate Professor; University of Wisconsin-Whitewater
- Maleah Holland, PhD 2014-2016  
 - Current position: Associate Professor; Augusta University

### **Past Masters students (1)**

- Xuansong Mao, PhD 2016-2017  
 - Post-Masters position: PhD graduate; University of Missouri-Columbia  
 (Mentor: Dr. Frank Booth)

### **Primary mentoring of graduate students (current)**

Bradley Ruple	Masters/PhD level	2020-2023
Joshua L. Godwin	PhD level	2020-2024
Mason McIntosh	PhD level	2021-2024
Anthony Agyin-Birikorang	PhD level	2021-2024
Max Michel	PhD level	2022-2025
Daniel Plotkin	PhD level	2022-2025
Madison Mattingly	PhD level	2022-2025

Nicholas Kontos	Masters/PhD level	2022-2026
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### Salaried laboratory technicians

J.C. Ogletree	Laboratory Technician	2020-2021
C. Brooks Mobley (post PhD)	Laboratory Technician	2018
Shelby Osburn (between MS and PhD)	Laboratory Technician	2019
Anna McCloskey	Laboratory Technician	2015-2016
James Healy	Laboratory Technician	2016-2017

### Dissertation Committee Member

(Committee Chair in parentheses)

*Completed (34 completed; major professor of 13 of these PhD graduates)*

Christie Clifton (Brown)	PhD level	2022
Kylie Harmon (Stock)*	PhD level	2022
Kristen Smith (Fruge)	PhD level	2022
Melissa Rumbley (Brown)	PhD level	2022
Zacko Rightmire (Sefton)	PhD level	2022
Morgan Smith ( <b>Roberts</b> )	PhD level	2022
Casey Sexton ( <b>Roberts</b> )	PhD level	2022
Melissa Rumbley (Brown)	PhD level	2022
Shelby Osburn ( <b>Roberts</b> )	PhD level	2022
Johnathon Moore ( <b>Roberts</b> )	PhD level	2021
Carlton Fox ( <b>Roberts</b> )	PhD level	2021
Hailey Parry (Kavazis)	PhD level	2021
Maitha Aldokhayyil (Brown)	PhD level	2020
Christopher Vann ( <b>Roberts</b> )	PhD level	2020
Donny Lamb (Huggins)	PhD level	2020
Adelola Adeyemo (Brown)	PhD level	2019
Ashley Peart (Wadsworth)	PhD level	2019
Matthew Romero ( <b>Roberts</b> )	PhD level	2019
Petey Mumford ( <b>Roberts</b> )	PhD level	2019
Paul Roberson ( <b>Roberts</b> )	PhD level	2019
Jeremy McAdam (Sefton)	PhD level	2018
Cody Haun ( <b>Roberts</b> )	PhD level	2018
Nina Zeng (Cameron-Smith) <sup>†</sup>	PhD level	2018
C. Brooks Mobley ( <b>Roberts</b> )	PhD level	2017
Leslie Neidert (Kluess)	PhD level	2017
Hayden Hyatt (Kavazis)	PhD level	2017
Mynor Rodriguez (Wadsworth)	PhD level	2017
Wesley Kephart ( <b>Roberts</b> )	PhD level	2017
Jeremy Townsend (Stout)*	PhD level	2016
A. Maleah Holland ( <b>Roberts</b> )	PhD level	2016
Vandre Figueiredo (Cameron-Smith) <sup>†</sup>	PhD level	2016
Ruru Li (Huggins)	PhD level	2016
Graham McGinnis (Quindry)	PhD level	2014
Chris Ballmann (Quindry)	PhD level	2014

Bridget Peters (Quindry)	PhD level	2014
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\*, indicates external Committee Member for University of Central Florida  
†, indicates external Reader for the University of Auckland

*Ongoing*

Mariah Morton (Kavazis)	PhD level	2022-pres.
Becky Jones (Kluess)	PhD level	2022-pres.
Chloe Jones (Wadsworth)	PhD level	2022-pres.
Bradley Ruple ( <b>Roberts</b> )	PhD level	2020-pres.
Paulo Mesquita (Kavazis)	PhD level	2020-pres.
Lauren Colenso-Semple (Phillips) <sup>#</sup>	PhD level	2020-pres.
Braxton Linder (Robinson)	PhD level	2022-pres.

<sup>#</sup>, indicates external Committee Member for McMaster University

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## PRESENTATIONS

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**Invited Conference and Symposium Lectures**

1. Title: 'The nuance of skeletal muscle hypertrophy'  
Conference: Texas American College of Sports Medicine Chapter Meeting (Waco, TX); 2022
2. Title: 'Skeletal muscle: challenging the dogma'  
Conference: VCOM Research Day (Auburn, AL); 2022
3. Title: 'State of the union: protein intake needs for different athletes'  
Conference: Warrior Research Center Research Summit (Auburn, AL); 2021
4. Title: 'Are there molecular predictors to resistance training outcomes in females?'  
Conference: XVII Congreso Internacional Fivestars (online venue in Spain with ~500 attendees); 2021
5. Title: 'The nuance of skeletal muscle hypertrophy'  
Conference: 18<sup>th</sup> International Society of Sports Nutrition Conference (St. Petersburg, FL); 2021
6. Title: 'Physiological Adaptations to Different Load Schemes'  
Venue: Texas ACSM Speaker Series Webinar (online venue); 2020
7. Title: 'Physiological Adaptations to Different Load Schemes'  
Venue: International Society of Sports Nutrition Webinar on Muscle Hypertrophy (online venue); 2020
8. Title: 'Physiological Adaptations to Exercise and Nutrition' (4 total lectures)  
Venue: Invited Scholar to Federal University of Juiz de Fora (Juiz de Fora, Brazil); 2019
9. Title: 'General adaptations with resistance training.'

- Conference: AAPM&R (San Antonio, TX); 2019
10. Title: 'The physiology behind low versus high responders to resistance training'  
Conference: 16<sup>th</sup> International Society of Sports Nutrition Conference (Las Vegas, NV); 2019
  11. Title: 'The LINE-1 jumping gene in muscle aging'  
Conference: American College of Sports Medicine Annual Meeting (Orlando, FL); 2019
  12. Title: 'The physiology behind low versus high responders to resistance training'  
Conference: International Society of Sports Nutrition at Kennesaw State University (Atlanta, GA); 2019
  13. Title: 'The physiology behind low versus high responders to resistance training'  
Venue: Sports Medicine Roundtable with MD Fellows, Auburn-VCOM (Auburn, AL); 2019
  14. Title: 'The physiology behind low versus high responders to resistance training'  
Conference: International Society of Sports Nutrition GAINZ Conference (Dallas, TX); 2019
  15. Title: 'The physiology behind low versus high responders to resistance training'  
Conference: International Society of Sports Nutrition Coastal Carolina Conference (Conway, SC); 2018
  16. Title: 'Jumping genes: a new paradigm of muscle aging'  
Venue: Hilliard Discussion 8 (HD8), Huffines Institute for Sports Medicine and Human Performance at Texas A&M University (College Station, TX); 2018
  17. Title: 'Over-the-counter supplements that affect muscle mass.'  
Conference: AAPM&R (Orlando, FL); 2018
  18. Title: 'The physiology behind low versus high responders to resistance training'  
Venue: Department of Nutrition, Food & Exercise Sciences at Florida State University (Tallahassee, FL); 2018
  19. Title: 'The effect of milk-derived exosomes on skeletal muscle physiology'  
Conference: Integrative Physiology of Exercise Meeting (San Diego, CA); 2018
  20. Title: 'Are animal models applicable to sports nutrition research?'  
Conference: 15<sup>th</sup> International Society of Sports Nutrition Conference (Clearwater, FL); 2018
  21. Title: 'A critical evaluation of assessing skeletal muscle hypertrophy.'  
Conference: American College of Sports Medicine Annual Meeting (Minneapolis, MN); 2018

22. Title: 'Over-the-counter supplements that affect muscle mass.'  
Conference: AAPM&R (Denver, CO); 2017
23. Title: 'Protein Supplementation for the Tactical Athlete.'  
Conference: Warrior Research Center Research Summit (Auburn, AL); 2017
24. Title: 'Ribosome Biogenesis 101.'  
Conference: American College of Sports Medicine Annual Meeting (Denver, CO); 2017
25. Title: 'Effects of exercise modality and post-exercise nutrition on markers of ribosome biogenesis in skeletal muscle.'  
Conference: Experimental Biology (Chicago, IL); 2017
26. Title: 'Ketogenic dieting with the intent of improving metabolic outcomes.'  
Venue: Auburn University's College of Veterinary Medicine Seminar Series (Auburn, AL); 2017
27. Title: 'Ketogenic dieting with the intent of improving metabolic outcomes.'  
Venue: Baylor University's Biomedical Sciences Seminar (Waco, TX); 2017
28. Title: 'Ketogenic dieting as an adjuvant to exercise-induced weight loss.'  
Conference: UAB's Center for Exercise Medicine 2<sup>nd</sup> Annual Symposium (Birmingham, AL); 2016
29. Title: 'Counterpoint: Nutrition and muscle gains, does leucine content matter?'  
Conference: 12<sup>th</sup> International Society of Sports Nutrition Conference (Austin, TX); 2015
30. Title: 'Dietary protein as a hormone.'  
Conference: Southeastern Chapter of the American College of Sports Medicine Meeting (Jacksonville, FL); 2015
31. Title: 'To post doc or not to post doc.'  
Conference: American College of Sports Medicine Meeting (San Diego, CA); 2015
32. Title: 'High versus low voluntary running rat model and its implications for human translational research'  
Conference: UAB's Center for Exercise Medicine 2<sup>nd</sup> Annual Symposium (Birmingham, AL); 2014
33. Title: 'Molecular updates on phosphatidic acid: muscle physiology and beyond.'  
Conference: 11<sup>th</sup> International Society of Sports Nutrition Conference (Clearwater Beach, FL); 2014
34. Title: 'Protein supplementation for elite performance.'  
Venue: Online Broadcast to Stanford University's Division of Sports Performance; 2014

35. Title: 'Protein supplementation for elite performance.'  
Venue: U.S. Army Rangers briefing (5 briefings), Fort Benning (Columbus, GA); 2013-2014, 2017
36. Title: 'Comparison of WPH vs. Other Whey Protein Forms: What the Science Tells Us.'  
Conference: 10<sup>th</sup> International Society of Sports Nutrition Conference (Colorado Springs, CO); 2013
37. Title: 'Using selective breeding to make couch potatoes versus super-athletes: what we've learned so far.'  
Venue: Nutritional Sciences Seminar, University of Missouri-Columbia Medical School; 2012
38. Title: 'Laboratory evidence examining the positive effects of physical activity in disease prevention.'  
Conference: 35<sup>th</sup> National Strength and Conditioning Association Conference (Providence, RI); 2012
39. Title: 'The role of amino acids in complementing activity-induced exercise adaptations.'  
Venue: Nutritional Sciences Seminar, University of Missouri-Columbia Medical School (Columbia, MO); 2011
40. Title: 'Molecular adaptations to muscle hypertrophy.'  
Conference: 33<sup>rd</sup> National Strength and Conditioning Association Conference (Orlando, FL); 2010
41. Title: 'Post-exercise inflammation: friend of foe?'  
Conference: Strength Pro Summit at *The Arnold Classic* (Columbus, OH); 2008

### **Abstract Presentations at Regional/National/International Conferences**

*Over 300, available upon request*

## **SERVICE AND AWARDS**

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### **Peer-reviewed Journal Editorial Boards**

- |            |  |
|------------|--|
| 2021-pres. | Senior Editor<br>Experimental Physiology (APS)                         |
| 2021-pres. | Editorial Board Member<br>Journal: <i>Physiological Reports</i> (MDPI) |
| 2021       | Invited Section Editor (with Dr. Jeffrey Martin)                       |

- Journal: Sports (MDPI)
- 2020-pres. Review Editor  
Journal: Frontiers in Physiology, Clinical and Translational Physiology
- 2018-pres. Editorial Board Member  
Journal: Sports (MDPI)
- 2017-pres. Review Editor  
Journal: Frontiers in Physiology, Sport and Exercise Nutrition
- 2017 Invited Section Editor (with Dr. Vincent Dalbo)  
Journal: Sports (MDPI)
- 2015-pres. Editorial Board Member  
Journal: Frontiers in Physiology, Exercise Physiology section
- 2011-pres. Editorial Board Member  
Journal: Journal for the International Society of Sports Nutrition

### External Service

- 2022 Organizing Committee & Symposium Chair  
Conference: Integrative Physiology of Exercise Meeting (Baltimore, MD)
- 2019, 2020 National Strength and Conditioning Foundation Program Grant Reviewer
- 2019 Symposium Chair: 'Retrotransposons: jumping from cancer to aging to exercise'  
Conference: American College of Sports Medicine Annual Meeting (Orlando, FL)
- 2018 Symposium Chair: 'Hypertrophy: The extrinsic variables'  
Conference: American College of Sports Medicine Annual Meeting (Minneapolis, MN)
- 2018 Judge for Poster Presentation Award Winners  
UAB's Center for Exercise Medicine 6<sup>th</sup> Annual Symposium
- 2017 Chair of Basic Science Thematic Poster Presentations  
National meeting for the American College of Sports Medicine
- 2016 Chair of Metabolism Thematic Poster Presentations  
Southeastern chapter of the American College of Sports Medicine
- 2015 Chair of Genetics Thematic Poster Session

- National meeting for the American College of Sports Medicine
- 2015 Masters Student abstract reviewer  
Southeastern chapter of the American College of Sports Medicine
- 2014 Via Osteopathic School of Medicine-Auburn hiring committee for  
Department of Cell Biology and Physiology Faculty (involved in 4 faculty  
hires)
- 2010-2013 Grant and National Conference Abstract Reviewer  
National Strength and Conditioning Association

### University Service

- 2020-pres. *Ex officio* member, University Research Council  
Auburn University
- 2020-pres. Chair, Institutional Biosafety Committee  
Auburn University
- 2020-pres. Chair, Biosafety Programming Committee  
Auburn University
- 2019-pres. Institutional Biosafety Committee  
Auburn University
- 2018-2019 Professional Development Committee  
School of Kinesiology, Auburn University
- 2018 Hiring Committee Member for Exercise Physiology Faculty Member  
School of Kinesiology, Auburn University
- 2017-pres. Faculty Advisor  
Powerlifting Club  
Auburn University
- 2016 Committee member for Health Disparities Cluster Hiring Initiative Faculty  
Member  
School of Kinesiology, Auburn University
- 2016 Committee Member for Biomechanics Faculty Member  
School of Kinesiology, Auburn University
- 2016 Committee Member for Cluster Hiring Initiative, Metabolomics Faculty  
Member  
Department of Animal Sciences, Auburn University

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2015-2016	Auburn University Intramural Grants Program Reviewer
2014	Ad hoc committee member on AU-KINE graduate admissions
2013-pres.	Committee member on AU-KINE Physical Activity and Health Curriculum Program Committee
2012	President University of Missouri Postdoctoral Association University of Missouri-Columbia
2011-2013	Events co-chair University of Missouri Postdoctoral Association University of Missouri-Columbia

### **Auburn School of Kinesiology Seminars Organized**

Fall 2019	Dr. Brian Ferguson (Research Scientist, Myokardia) Lecture regarding Pharmaceutical Research
Fall 2017	Nick Shaw (CEO, Renaissance Periodization) Lecture regarding Online Fitness Industry
Fall 2017	Dr. John McCarthy (University of Kentucky) Lecture on miRNAs affecting muscle tissue physiology
Fall 2016	Dr. Gabriel Wilson (Maximum Human Performance) Lecture on Sports Nutrition Industry
Fall 2015	Dr. Marcos Bamman (University Alabama-Birmingham) Lecture on exercise and regenerative medicine
Fall 2015	Dr. Frank Booth (University of Missouri) Lecture on AICAR effects on aerobic fitness in rodents
Spring 2015	Dr. John McCarthy (University of Kentucky) Lecture on miRNAs affecting muscle tissue physiology
Fall 2014	Dr. Frank Booth (University of Missouri) Lecture on Physical Activity and Health and NIH funding
Fall 2014	Dr. Jordan Moon (Muscle Pharm Research Institute) Lecture on Body Composition Research
Fall 2014	Dr. Richard Kreider (Texas A&M University)

- Lecture on Nutritional Supplement Research
- Fall 2013 Dr. Mark Faries (Stephen F. Austin University)  
Lecture on Adherence to Physical Activity
- Fall 2013 Dr. Chris Lockwood (4Life Research, Inc.)  
Lecture on Career Development

### **Professional Organization Memberships**

- 2019-pres. National Strength and Conditioning Association
- 2017-pres. American Physiological Society
- 2014-pres. American College of Sports Medicine
- 2014-pres. American College of Sports Medicine: Southeastern Chapter
- 2014-pres. International Society of Sports Nutrition

### **Honors and Awards**

- 2018 Ragus Award JACN Best Original Research Paper of 2017, for  
Lockwood, Roberts (corr. author) et al. JACN 36: 1  
Journal for the American College of Nutrition
- 2018 Emily and Gerald Leischuck Graduate Teaching Award  
College of Education  
Auburn University
- 2017 Outstanding Faculty Early Career Award  
College of Education  
Auburn University
- 2012 M. Harold Laughlin Scholarship Award  
*(Outstanding Postdoctoral Fellow in Biomedical  
Sciences/Kinesiology/Medical School)*  
School of Medicine and College of Veterinary Medicine  
University of Missouri
- 2011-2013 Recipient of NIH Loan Repayment Award  
National Institutes of Health
- 2007 Recipient of Doctoral Research Grant  
National Strength and Conditioning Foundation

**Student Honors and Awards (served as primary mentor)**

- 2022 Paulo Mesquita (served as project PI for grant application, Kavazis is student's PI)  
Doctoral Student Research Grant, National Strength and Conditioning Foundation  
(\$15,000)
- 2022-24 Daniel Plotkin  
Auburn University Presidential Fellowship Awardee  
(Covers up to \$30,000/year for 3 years)
- 2021-23 Mason McIntosh  
NIH T32 – GRISE Awardee  
(Covers up to \$30,000/year for 3 years)
- 2022 Shelby Osburn  
G. Dennis Wilson Scholarship  
College of Education, Auburn University  
(\$1,200 award)
- 2021 Shelby Osburn  
2<sup>nd</sup> place overall (~30 entries) for best research poster  
VCOM Research Day (Auburn, AL)  
(\$300 award)
- 2019 Shelby Osburn  
1<sup>st</sup> place overall for best research poster  
American College of Nutrition, National Meeting (San Diego, CA)  
(\$300 award)
- 2019 Matthew Romero  
1<sup>st</sup> place overall (96 entries) for best research poster  
VCOM Research Day (Auburn, AL)  
(\$500 award)
- 2019 Petey Mumford  
2<sup>nd</sup> place overall (96 entries) for best research poster  
VCOM Research Day (Auburn, AL)  
(\$300 award)
- 2019 Matthew Romero  
Leadership and Diversity Training Program  
American College of Sports Medicine  
(\$1,000 award)

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- 2018 Matthew Romero  
1<sup>st</sup> place overall for best research poster  
UAB Exercise is Medicine Conference (Birmingham, AL)  
(\$500 award)
- 2018 Matthew Romero  
Research Abstract Award  
Integrative Physiology of Exercise Bi-annual Meeting (San Diego, CA)  
(\$250 award)
- 2018 Matthew Romero  
APS Porter Scholarship  
(\$28,000 award)
- 2018 Petey Mumford  
G. Dennis Wilson Scholarship  
College of Education, Auburn University  
(\$1,200 award)
- 2018 C. Brooks Mobley  
Selected as 1 of Top 10 university-wide Graduate Students  
Auburn University
- 2018 Paul Roberson  
Placed 1<sup>st</sup> overall for best PhD research poster  
Southeast Chapter for the American College of Sports Medicine Annual  
Conference  
(\$300 award)
- 2018 Matthew Romero  
Leadership and Diversity Training Program  
American College of Sports Medicine  
(\$1,000 award)
- 2017 C. Brooks Mobley  
Graduate Student of the Year  
School of Kinesiology, Auburn University
- 2017 C. Brooks Mobley  
Kochan Fund for Excellence Graduate Award  
Auburn University  
(\$1,250 award)
- 2017 C. Brooks Mobley  
Doctoral Scholar Award

- American Kinesiology Association
- 2017 Wesley Kephart  
Presidential Award (Campus-wide Graduate Student of the Year)  
Auburn University  
(\$1,000 award)
- 2017 Wesley Kephart  
Selected as 1 of Top 10 university-wide Graduate Students  
Auburn University
- 2017 Paul Roberson and Wesley Kephart (co-first authors)  
Won best poster presentation at Boshell Diabetes Conference  
Auburn University  
(\$500 award)
- 2017 Matthew Romero  
Leadership and Diversity Training Program  
American College of Sports Medicine  
(\$1,000 award)
- 2017 Matthew Romero  
MARC Mentored Travel Award  
Federation of American Societies for Experimental Biology  
(\$1,850 award)
- 2016 Wesley Kephart  
Graduate Student of the Year  
School of Kinesiology, Auburn University
- 2016 Cody Haun  
1 of 3 best research posters  
UAB Exercise is Medicine Conference (Birmingham, AL)  
(\$500 award)
- 2015 Wesley Kephart  
Won best poster presentation  
International Society of Sports Nutrition meeting (Tampa, FL)  
(\$1,000 award)
- 2015 C. Brooks Mobley  
1 of 3 best posters  
Southeast Chapter for the American College of Sports Medicine Annual  
Conference  
(\$500 award)

2014

C. Brooks Mobley

Placed 2<sup>nd</sup> overall at SEACSM graduate student poster awards  
(\$500 award)

2013

C. Brooks Mobley

1 of 8 finalists for best Masters Student awarded by the American  
Kinesiology Association

## PROFESSIONAL REFERENCES

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### Current or past colleagues at Auburn University

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