Justin P. Hardee, Ph.D.

PERSONAL INFORMATION

Office Address: 131 FLGym, 1864 Stadium Road
Department of Applied Physiology and Kinesiology
College of Health and Human Performance
University of Florida
Gainesville, FL 32611-8205
j.hardee@ufl.edu

EDUCATION

2011 – 2017 Ph.D., Exercise Science (Applied Physiology)
University of South Carolina, Columbia, SC
Advisor: James A. Carson, Ph.D.

2009 – 2011 M.S., Exercise Science (Research)
Appalachian State University, Boone, NC
Advisors: Jeffrey McBride, Ph.D., Kevin A. Zwetsloot, Ph.D.

2006 – 2009 B.S., Exercise Science, Cum Laude
University of West Florida, Pensacola, FL

POSTDOCTORAL TRAINING

2022 – 2025 Australian Research Council Discovery Early Career Research Award Fellow
Centre for Muscle Research, University of Melbourne, Melbourne, VIC.
Advisor: Gordon S. Lynch, Ph.D.

2019 – 2022 McKenzie Postdoctoral Fellow
Centre for Muscle Research, University of Melbourne, Melbourne, VIC.
Advisor: Gordon S. Lynch, Ph.D.

2018 – 2019 Postdoctoral Research Fellow
Centre for Muscle Research, University of Melbourne, Melbourne, VIC.
Advisor: Gordon S. Lynch, Ph.D.

PROFESSIONAL EXPERIENCE

2025 – Present Assistant Professor, Department of Applied Physiology and Kinesiology
College of Health and Human Performance
University of Florida
Gainesville, FL 32611-8205

ADMNISTRATIVE EXPERIENCE

2021 – 2023 Advisor, Victorian Muscle Network. Melbourne, VIC.
2021 – 2023 Co-Chair, Early-Mid Career Researchers Association. School of Biomedical Sciences.
University of Melbourne. Melbourne, VIC.

PROFESSIONAL SOCIETIES

2018 – Present Professional Member, American Physiological Society
2018 – Present Professional Member, Australian Physiological Society
2018 – Present Professional Member, American College of Sports Medicine

HONORS AND AWARDS

2023	AK McIntyre Prize, Australian Physiological Society.
2022	Australian Research Council Discovery Early Career Researcher Award Fellowship.
2019	McKenzie Postdoctoral Fellowship, University of Melbourne.
2017	Donna and Andrew Sorensen Graduate Student Fellowship in Cancer Research Award, Center for Colon Cancer Research, University of South Carolina.
2016	Breakthrough Graduate Scholar, Office of the Vice President for Research, University of South Carolina.
2015	Doctoral Student Research Award, Southeast Chapter of the American College of Sports Medicine.
2013	Research Fellowship, Metabolism Unit, Shriners Hospitals for Children, University of Texas Medical Branch.
2012	Norman J. Arnold Fellowship, Arnold School of Public Health, University of South Carolina.
2009	Best Coaching Education Poster Presentation, 4th Annual Coaches & Sport Science College, East Tennessee State University.
2009	Outstanding Student Leadership Award, Undergraduate Student Recognition, University of West Florida.

RESEARCH SUPPORT

Active:

Duchenne Parent Project Netherlands 01/2025 – 12/2026
The Future of Duchenne
Targeting exercise-responsive pathways to impede dystrophic pathology and enhance current pharmacotherapies in DMD
Total: $98,210 EUR
Role: PI, Hardee JP

Australian Research Council 01/2024 – 12/2026
Discovery Project 2024
Interrogating the extremes of skeletal muscle plasticity in vertebrates
Total: $514,897 AUD
Role: CIB, Hardee JP (CIA, Lynch; CIC, Ruparelia)

Completed:

University of Melbourne 01/2024 – 12/2024
Faculty of Medicine, Dentistry and Health Sciences Mid-Career Seeding Grant
Targeting metabolic dysfunction to improve survival during cancer
Total: $25,000 AUD
Role: CIA, Hardee JP

University of Melbourne 01/2023 – 12/2023
School of Biomedical Sciences Early-Mid Career Researchers Association Collaborative Award
Biological roles of dystrophin and utrophin in dystrophic muscle adaptations to exercise
Total: $20,000 AUD
Role: Co-CI, Hardee JP; Co-CI, Walsh C

Australian Research Council 05/2022 – 12/2024
Discovery Early Career Researcher Award Fellowship
Interrogating the adaptive potential of skeletal muscle
Total: $467,964 AUD
Role: CIA, Hardee JP

University of Melbourne 05/2022 – 12/2024
Establishment Grant
Interrogating the adaptive potential of skeletal muscle
Total: $50,000 AUD
Role: CIA, Hardee JP

American College of Sports Medicine 01/2021 – 12/2022
Foundation Research Endowment Grant
Interrogating the adaptive potential of adult skeletal muscle to exercise
Total: $9,993 USD
Role: CIA, Hardee JP

University of Melbourne 01/2021 – 12/2021
School of Biomedical Sciences Early-Mid Career Researchers Association Collaborative Award
3D visualization of the neuromuscular interface in mouse models of muscular dystrophy
Total: $15,000 AUD
Role: Co-CI, Hardee JP; Co-CI, Fuller-Jackson JP

University of Melbourne 01/2019 – 05/2022
McKenzie Postdoctoral Fellowships Program, University of Melbourne
Therapeutic potential of slow muscle programming in health and disease
Total: $308,683 AUD
Role: PI, Hardee JP

University of Melbourne 01/2019 – 12/2019
School of Biomedical Sciences Early-Mid Career Researchers Association Collaborative Award
Novel models to examine contraction-induced mitochondrial plasticity
Total: $17,500 AUD
Role: Co-CI, Hardee JP; Co-CI, Stamp LA; Co-CI, Reljic B

PEER REVIEWED PUBLICATIONS (45 TOTAL)

45. Swiderski K, Trieu J, Chee A, Naim T, Brock CJ, Baum DM, Chan AS, Hardee JP, Li W, Kueh AJ, Herold MJ, Murphy KT, Gregorevic P, Lynch GS. Altering phosphorylation of dystrophin S3059 to attenuate cancer cachexia. Life Sci. 2025 Feb 1;362:123343. doi: 10.1016/j.lfs.2024.123343.

44. Leembruggen AJL, Yildiz G, **Hardee JP**, Stamp LA, Bornstein JC, Hao MH. Plasticity of enteric neurotransmission varies during day-night cycles and with feeding state. Am J Physiol Gastrointest Liver Physiol. 2025 Feb 1;328(2):G145-G151. doi: 10.1152/ajpgi.00286.2024.

43. Swiderski K, Chan AS, Herold MJ, Kueh AJ, Chung JD, **Hardee JP**, Trieu J, Chee A, Naim T, Gregorevic P, Lynch GS. The BALB/c.mdx62 mouse exhibits a dystrophic muscle pathology and is a novel model of Duchenne muscular dystrophy. Dis Model Mech. 2024 Apr 11:dmm.050502. doi: 10.1242/dmm.050502.

42. Ruparelia AA, Montandon M, Merriner J, Huang C, Wong SFL, Sonntag C, **Hardee JP**, Lynch GS, Miles LB, Siegel A, Hall TE, Schittenhelm RB, Currie PD. Atrogin-1 promotes muscle homeostasis by regulating levels of endoplasmic reticulum chaperone BiP. JCI Insight. 2024 Mar 26:e167578. doi: 10.1172/jci.insight.167578.

41. Chan AS, **Hardee JP**, Blank M, Cho EH, McGregor NE, Sims NA, Lynch GS. Increasing muscle contractility through low-frequency stimulation alters tibial bone geometry and reduces bone strength in mdx

and dko dystrophic mice. J Appl Physiol (1985). 2023 Jul 1;135(1):77-87. doi: 10.1152/japplphysiol.00651.2022.

40. Blazev R, Carl CS, Ng YK, Molendijk J, Voldstedlund CT, Zhao Y, Xiao D, Kueh AJ, Miotto PM, Haynes VR, **Hardee JP**, Chung JD, McNamara JW, Qian H, Gregorevic P, Oakhill JS, Herold MJ, Jensen TE, Lisowski L, Lynch GS, Dodd GT, Watt MJ, Yang P, Kiens B, Richter EA, Parker BL. Phosphoproteomics of three exercise modalities identifies canonical signaling and C18ORF25 as an AMPK substrate regulating skeletal muscle function. Cell Metab. 2022 Oct 4;34(10):1561-1577.e9. doi: 10.1016/j.cmet.2022.07.003

39. **Hardee JP**, Carson JA. Muscular contraction's therapeutic potential for cancer-induced wasting. Am J Physiol Cell Physiol. 2022 Aug 1;323(2):C378-C384. doi: 10.1152/ajpcell.00021.2022.

38. Ovens AJ, Gee YS, Ling NXY, Yu D, **Hardee JP**, Chung JD, Ngoei KRW, Waters NJ, Hoffman NJ, Scott JW, Loh K, Spengler K, Heller R, Parker MW, Lynch GS, Huang F, Galic S, Kemp B, Baell J, Oakhill JS, Langendorf CG. Structure-function analysis of the AMPK activator SC4 and identification of a potent pan AMPK activator. Biochem J. 2022 Jun 17;479(11):1181-1204. doi: 10.1042/BCJ20220067.

37. Hughes DC, **Hardee JP**, Waddell DS, Goodman CA. CORP: Gene delivery into murine skeletal muscle using in vivo electroporation. J Appl Physiol (1985). 2022 Jul 1;133(1):41-59. doi: 10.1152/japplphysiol.00088.2022.

36. Alves FM, Kysenius K, Caldow MK, **Hardee JP**, Trieu J, Crouch PJ, Ayton S, Bush AI, Lynch GS, Koopman R. Iron overload and impaired iron handling as contributing mechanisms to the dystrophic pathology in mdx and dko mouse models of Duchenne muscular dystrophy. J Cachexia Sarcopenia Muscle. 2021 Apr;12(2):476-492. doi: 10.1002/jcsm.12685

35. **Hardee JP**, Caldow MK, Chan ASM, Plenderleith SK, Trieu J, Koopman R, Lynch GS. Dystrophin deficiency disrupts muscle clock expression and mitochondrial quality control in mdx mice. Am J Physiol Cell Physiol. 2021 Aug 1;321(2):C288-C296. doi: 10.1152/ajpcell.00188.2021.

34. Chan ASM, McGregor NE, Poulton IJ, **Hardee JP**, Cho EHJ, Martin TJ, Gregorevic P, Sims NA, Lynch GS. Bone geometry is altered by follistatin-induced muscle growth in young adult male mice. JBMR Plus. 2021 Mar 3;5(4):e10477. doi: 10.1002/jbm4.10477.

33. Alves FM, Kysenius K, Caldow MK, **Hardee JP**, Crouch PJ, Ayton S, Bush AI, Lynch GS, Koopman R. Iron accumulation in skeletal muscles of old mice is associated with impaired regeneration after ischemia-reperfusion damage. J Cachexia Sarcopenia Muscle. 2021 Apr;12(2):476-492. doi: 10.1002/jcsm.12685.

32. Ellwood RA, Hewitt JE, Torregrossa R, Philp AM, **Hardee JP**, Hughes S, van de Klashorst D, Gharahdaghi N, Anupom T, Slade L, Deane CS, Cooke M, Etheridge T, Piasecki M, Antebi A, Lynch GS, Philp A, Vanapalli SA, Whiteman M, Szewczyk NJ. Hydrogen sulfide supplementation improves health in the C. elegans Duchenne muscular dystrophy model. Proc Natl Acad Sci U S A. 2021 Mar 2;118(9):e2018342118. doi: 10.1073/pnas.2018342118.

31. **Hardee JP**, Martins KJB, Miotto PM, Ryall JG, Gehrig SM, Reljic B, Naim T, Chung JD, Trieu J, Swiderski K, Philp AM, Philp A, Watt MJ, Stroud DA, Koopman R, Steinberg GR, Lynch GS. Metabolic remodeling of dystrophic skeletal muscle reveals biological roles for dystrophin and utrophin in adaptation and plasticity. Mol Metab. 2021 Mar;45:101157. doi: 10.1016/j.molmet.2020.101157.

30. Hornsby WG, Haff GG, Suarez DG, Ramsey MW, Triplett NT, **Hardee JP**, Stone ME, Stone MH. Alterations in adiponectin, leptin, resistin, testosterone and cortisol across eleven weeks of training among

division one collegiate throwers: a preliminary study. J Funct Morphol Kinesiol. 2020 Jun 19;5(2):44. doi: 10.3390/jfmk5020044.

29. Gnaiger E, et al — MitoEAGLE Task Group. Mitochondrial physiology. Bioenerg Commun. 2020. 1. doi:10.26124/bec:2020-0001.v1.

28. **Hardee JP**, Fix DK, Wang X, Goldsmith EC, Koh HJ, Carson JA. Repeated eccentric contractions positively regulate muscle oxidative metabolism and protein synthesis during cancer cachexia in mice. J Appl Physiol (1985). 2020 Jun 1;128(6):1666-1676. doi: 10.1152/japplphysiol.00908.2019.

27. Counts BK, **Hardee JP**, Fix DK, VanderVeen BN, Montalvo RN, Carson JA. Cachexia disrupts diurnal regulation of activity, feeding, and muscle mechanistic target of rapamycin complex 1 in mice. Med Sci Sports Exerc. 2020 Mar;52(3):577-587. doi: 10.1249/MSS.0000000000002166.

26. **Hardee JP**, Lynch GS. Current pharmacotherapies for sarcopenia. Expert Opin Pharmacother. 2019 Sep;20(13):1645-1657. doi: 10.1080/14656566.2019.1622093.

25. **Hardee JP**, Counts BK, Carson JA. Understanding the role of exercise in cancer cachexia therapy. Am J Lifestyle Med. 2017 Aug 17;13(1):46-60. doi: 10.1177/1559827617725283.

24. Montalvo RN, **Hardee JP**, VanderVeen BN, Carson JA. Resistance Exercise Can Reverse Cancer-Induced Anabolic Resistance. Exerc Sport Sci Rev. 2018 Oct;46(4):247-253. doi: 10.1249/JES.0000000000000159.

23. **Hardee JP**, Fix DK, Wang X, Goldsmith EC, Koh HJ, Carson JA. Systemic IL-6 regulation of eccentric contraction-induced muscle protein synthesis. Am J Physiol Cell Physiol. 2018 Jul 1;315(1):C91-C103. doi: 10.1152/ajpcell.00063.2018.

22. Fix DK, **Hardee JP**, Gao S, Hetzler KL, Carson JA. Role of gp130 in basal and exercise trained skeletal muscle mitochondrial quality control. J Appl Physiol (1985). 2018 Jun 1;124(6):1456-1470. doi: 10.1152/japplphysiol.01063.2017.

21. **Hardee JP**, Montalvo RN, Carson JA. Linking cancer cachexia-induced anabolic resistance to skeletal muscle oxidative metabolism. Oxid Med Cell Longev. 2017;2017:8018197. doi: 10.1155/2017/8018197.

20. VanderVeen BN, **Hardee JP**, Fix DK, Carson JA. The relationship between skeletal muscle function and inflammation during the progression of cancer cachexia. J Appl Phys. 2018 Mar 1;124(3):684-695. doi: 10.1152/japplphysiol.00897.2017.

19. **Hardee JP**, Counts BR, Gao S, VanderVeen BN, Fix DK, Carson JA. Inflammatory signaling regulates eccentric contraction induced muscle protein synthesis during cancer cachexia. J Cachexia Sarcopenia Muscle. 2018 Apr;9(2):369-383. doi: 10.1002/jcsm.12271.

18. Choi RH, McConahay A, Jeong H, McClellan JL, **Hardee JP**, Carson JA, Hirshman MF, Goodyear LJ, Koh HJ. Tribbles 3 regulates protein turnover in mouse skeletal muscle. Biochem Biophys Res Commun. 2017 Nov 25;493(3):1236-1242. doi: 10.1016/j.bbrc.2017.09.134.

17. Brown JL, Rosa-Caldwell ME, Lee DE, Blackwell TA, Brown LA, Perry RA, Haynie WS, **Hardee JP**, Carson JA, Wiggs MP, Washington TA, Greene NP. Mitochondrial degeneration precedes the development of muscle atrophy in progression of cancer-cachexia in tumor-bearing mice. J Cachexia Sarcopenia Muscle. 2017 Dec;8(6):926-938. doi: 10.1002/jcsm.12232.

16. Hetzler KL, **Hardee JP**, LaVoie HA, Murphy EA, Carson JA. Ovarian function's role during cancer cachexia progression in the female mouse. Am J Physiol Endocrinol Metab. 2017 May 1;312(5):E447-E459. doi: 10.1152/ajpendo.00294.2016.

15. **Hardee JP**, Carson JA. Understanding sarcopenia development: A role for healthy behaviors. Am J Lifestyle Med. 2017 Jan;11(1):17-20. doi: 10.1177/1559827616674163.

14. Fix DK, **Hardee JP**, Bateman TA, Carson JA. Effect of irradiation of Akt signaling in atrophying skeletal muscle. J Appl Physiol (1985). 2016 Oct 1;121(4):917-924. doi: 10.1152/japplphysiol.00218.2016.

13. Narsale AA*, Puppa MJ*, **Hardee JP***, VanderVeen BN, Enos R, Murphy EA, Carson JA. Short-term pyrrolidine dithiocarbamate administration attenuates cachexia-induced alterations to muscle and liver in *Apc*$^{Min/+}$ mice. Oncotarget. 2016 Sep 13;7(37):59482-59502. doi: 10.18632/oncotarget.10699. ***authors contributed equally***

12. Mangum JE, **Hardee JP**, Fix DK, Puppa MJ, Elkes J, Altomare D, Bykhovskaya Y, Campagna DR, Schmidt PJ, Sendamarai AK, Lidov HG, Barlow SC, Fischel-Ghodsian N, Fleming MD, Carson JA, Patton JR. Pseudouridine synthase 1 deficient mice, a model for mitochondrial myopathy with sideroblastic anemia, exhibits muscle morphology and physiology alterations. Sci Rep. 2016 May 20;6:26202. doi: 10.1038/srep26202.

11. **Hardee JP**, Mangum JM, Gao S, Hetzler KL, Sato S, Puppa MJ, Fix DK, Carson JA. Eccentric contraction-induced myofiber growth in tumor-bearing mice. J Appl Physiol. 2016 Jan 1;120(1):29-37. doi: 10.1152/japplphysiol.00416.2015.

10. Carson JA, **Hardee JP**, VanderVeen BN. The emerging role of skeletal muscle oxidative metabolism as a biological target and cellular regulator of cancer-induced muscle wasting. Semin Cell Dev Biol. 2016 Jun;54:53-67. doi: 10.1016/j.semcdb.2015.11.005.

9. Hetzler KL, **Hardee JP**, Puppa MJ, Narsale AA, Sato S, Carson JA. Sex differences in the relationship of IL-6 signaling to cancer cachexia progression. Biochim Biophys Acta. 2015 May;1852(5):816-25. doi: 10.1016/j.bbadis.2014.12.015.

8. Porter C, **Hardee JP**, Herndon DN, Suman OE. The role of exercise in the rehabilitation of patients with severe burns. Exerc Sport Sci Rev. 2015 Jan;43(1):34-40. doi: 10.1249/JES.0000000000000029.

7. **Hardee J**, Sui X, Blair SN, Lavie CJ. In reply-Resistance training and cancer survival. Mayo Clin Proc. 2014 Oct;89(10):1465-6. doi: 10.1016/j.mayocp.2014.08.002.

6. **Hardee JP**, Puppa MJ, Fix D, Gao S, Hetzler KL, Bateman TA, Carson JA. The effect of radiation dose on mouse skeletal muscle remodeling. Radiol Oncol. 2014 Jul 10;48(3):247-56. doi: 10.2478/raon-2014-0025.

5. **Hardee JP**, Porter RR, Sui X, Archer EC, Lee IM, Lavie CJ, Blair SN. The effect of resistance exercise on all-cause mortality in cancer survivors. Mayo Clin Proc. 2014 Aug;89(8):1108-15. doi: 10.1016/j.mayocp.2014.03.018.

4. **Hardee JP**, Porter C, Sidossis LS, Borsheim E, Carson JA, Herndon DN, Suman OE. Early rehabilitative exercise training in the recovery from pediatric burn. Med Sci Sports Exerc. 2014 Sep;46(9):1710-6.

3. **Hardee JP**, Lawrence MM, Triplett NT, Utter AC, Zweslott KA, McBride JM. Effect of cluster set configurations on power clean technique. J Sports Sci. 2013;31(5):488-96. doi: 10.1080/02640414.2012.736633.

2. **Hardee JP,** Lawrence MM, Triplett NT, Utter AC, Zwetsloot KA, McBride JM. Effect of inter-repetition rest on ratings of perceived exertion during multiple sets of the power clean. Eur J Appl Physiol. 2012 Aug;112(8):3141-7. doi: 10.1007/s00421-011-2300-x.

1. **Hardee JP**, Triplett NT, Utter AC, Zwetsloot KA, McBride JM. Effect of interrepetition rest on power output in the power clean. J Strength Cond Res. 2012 Apr;26(4):883-9. doi: 10.1519/JSC.0b013e3182474370.

* Full list of metrics can be found here: ORCID and Google scholar profile

BOOK CHAPTERS

1. Swiderski K*, **Hardee JP***, Lynch GS. Regenerative rehabilitation for Duchenne muscular dystrophy. In: Regenerative Rehabilitation - From Basic Science to the Clinic. Springer. 2022. doi.org/10.1007/978-3-030-95884-8. **Authors contributed equally*

RESEARCH PRESENTATIONS / SEMINARS

Conference

Interrogating the biological roles of dystrophin and utrophin in contraction-mediated adaptations to dystrophic skeletal muscle. New Zealand Physiological Society National Conference. Queenstown, NZ. Sept 2024.

Interrogating the biological roles of dystrophin and utrophin in contraction-mediated adaptations to dystrophic skeletal muscle. Australian Physiology Society National Conference. Melbourne, VIC. Nov 2023.

Interrogating the biological roles of dystrophin and utrophin in dystrophic muscle adaptations to exercise. Australian Physiology Society National Conference. Hobart, TAS. Nov 2022.

Interrogating the biological roles of dystrophin and utrophin in dystrophic muscle adaptations to exercise. Victorian Muscle Network Symposium. Melbourne, VIC. Oct 2022.

Metabolic and functional adaptations to low-frequency stimulation in dystrophic mice. Australian Physiology Society National Conference. Canberra, ACT. Dec 2019.

Therapeutic potential of slow muscle programming by low-frequency stimulation in dystrophic mice. Australian Physiology Society National Conference. Sydney, NSW. Nov 2018.

Therapeutic potential of slow muscle programming by low-frequency stimulation in dystrophic muscle. Faculty of Medicine, Dentistry, and Health Sciences Early Career Researcher Network Symposium. Melbourne, VIC. Oct 2018.

Cachectic skeletal muscle plasticity to increased used. Gage Muscle Conference. Canberra, ACT. Apr 2018.

Cachectic skeletal muscle response to eccentric and concentric contractions. American College of Sports Medicine's National Meeting. San Diego, CA. May 2015.

Myofiber rates of protein synthesis using the SUnSET technique. Southeastern Microscopy Society Annual Meeting. Columbia, SC. May 2014.

Effect of inter-repetition rest periods on power output in the power clean. National Strength and Conditioning Association's National Conference. Las Vegas, NV. Jul 2011.

University / Research Institute

Muscle plasticity in health and disease. Department of Applied Physiology and Kinesiology. University of Florida. Gainesville, FL. Dec 2023.

Therapeutic potential of slow muscle programming for Duchenne muscular dystrophy. Department of Anatomy and Physiology Annual Research Symposium. Melbourne, VIC. Nov 2023.

Therapeutic potential of slow muscle programming in Duchenne muscular dystrophy. Myology Institute. University of Florida. Gainesville, FL. Jan 2023.

Using neuromuscular stimulation to investigate muscle adaptation and plasticity in health and disease. Bionics Institute. Melbourne, VIC. May 2022.

Muscle inflammatory signaling regulation of eccentric contraction-induced protein synthesis. Department of Physiology, University of Melbourne, Parkville, VIC. Mar 2018.

Resistance exercise training during cancer survival. University of South Carolina Discover USC, 3MT Competition. Columbia, SC. Apr 2017.

Cachectic skeletal muscle response to eccentric contractions in tumor bearing mice. Division of Gerontology & Geriatric Medicine, University of Washington School of Medicine, Seattle, WA. Jan 2017.

Skeletal muscle anabolic response to eccentric contractions in tumor bearing mice. University of South Carolina Graduate Student Day. Columbia, SC. Apr 2016.

Effect of cachexia severity on eccentric contraction-induced myofiber growth in tumor-bearing mice. Department of Exercise Science, University of South Carolina, Columbia, SC. Sept. 2015.

The role of physical activity during cancer. Department of Exercise Science, University of South Carolina, Columbia, SC. Sept 2013.

RESEARCH TRAINING

Previous Masters Students

Gizel Ruiz, M.S., Department of Anatomy and Physiology, University of Melbourne (2022 –2023)

Previous Undergraduate Students

Stuart Plenderleith, B.S., Honors Thesis, Department of Physiology, University of Melbourne (2020)
Stuart Plenderleith, Research Project, Department of Physiology, University of Melbourne (2019)

Ph.D. Committee Member

Emily Haber, Department of Anatomy and Physiology, University of Melbourne (2024 – Present)
Chloe Li, Department of Anatomy and Physiology, University of Melbourne (2022 – Present)

M.S. Committee Member

Emily Haber, Department of Anatomy and Physiology, University of Melbourne (2022 – 2023)

External Ph.D. Thesis Examiner

Akita S. Tulangekar, Ph.D., Monash University, Advisor: Professor Robert Bryson-Richardson (2024)

TEACHING EXPERIENCE

Lecture and Laboratory

Appalachian State University

EXSC2010L - Exercise Physiology Laboratory (Fall 2009 – Spring 2011)

University of South Carolina

EXSC 743 - Laboratory Measurements in Exercise Testing (Spring 2013, 2014)
EXSC 784 - Cardiovascular and Pulmonary Testing and Programing (Spring 2012, 2013)
EXSC 742 - Clinical Exercise Testing (Fall 2012, 2013, Spring 2014)
EXSC 531L - Clinical Exercise Physiology (Spring 2012)
EXSC 223 - Anatomy and Physiology I (Fall 2011)
EXSC 530L - Exercise Physiology (Fall 2011)

Invited Lectures and Tutorials

University of South Carolina

- EXSC541: Physiological Basis for Strength and Conditioning (undergraduate). “Olympic weightlifting for athletic development”. Department of Exercise Science, University of South Carolina, Columbia, SC. Spring 2012, 2013.
- EXSC541: Physiological Basis for Strength and Conditioning (undergraduate). “Periodization: designing the annual training plan”. Department of Exercise Science, University of South Carolina, Columbia, SC. Spring 2012, 2013.
- EXSC541: Physiological Basis for Strength and Conditioning (undergraduate). “Anaerobic Exercise Prescription: Resistance Training”. Department of Exercise Science, University of South Carolina, Columbia, SC. Spring 2012, 2013.
- EXSC780: Physiology of Exercise (graduate). “Skeletal muscle protein turnover”. Department of Exercise Science, University of South Carolina, Columbia, SC. Fall 2013.

University of Melbourne

- BMSC90022: Current Challenges in Metabolic Diseases (graduate). Lectures on “Exercise and metabolic health”. Department of Anatomy and Physiology, University of Melbourne, Parkville, VIC. May 2024.
- BMSC90022: Current Challenges in Metabolic Diseases (graduate). Lectures on “Cachexia metabolic dysregulation”. Department of Anatomy and Physiology, University of Melbourne, Parkville, VIC. April 2024.
- BMSC90022: Current Challenges in Metabolic Diseases (graduate). Lectures on “Exercise and metabolic health”. Department of Anatomy and Physiology, University of Melbourne, Parkville, VIC. May 2023.
- BMSC90022: Current Challenges in Metabolic Diseases (graduate). Lectures on “Cachexia metabolic dysregulation”. Department of Anatomy and Physiology, University of Melbourne, Parkville, VIC. May 2023.
- PHYS30012: Physiology: Adapting to Challenges (undergraduate). Tutorial on skeletal muscle plasticity. Department of Anatomy and Physiology, University of Melbourne, Parkville, VIC. September 2022.
- PHYS30005: Muscle and Exercise (undergraduate). “Skeletal muscle plasticity in health and disease”. Department of Physiology, University of Melbourne, Parkville, VIC. May 2018.

SERVICE

Grant Review

2023	PRELUDIUM-22, National Science Centre Poland
2023	ARC Discovery Projects 2024 (DP24), Australian Research Council
2023	ARC Future Fellowship 2023 Round 1, Australian Research Council

Editorial Board

2022 – Present	Medicine and Science in Sports and Exercise

Journal Peer Reviewer

- Medicine and Science in Sports and Exercise
- Journal of Cachexia, Sarcopenia and Muscle
- American Journal of Physiology – Endocrinology and Metabolism
- American Journal of Physiology – Regulatory, Integrative and Comparative Physiology
- Journal of Applied Physiology
- Journal of Bone and Mineral Research
- Clinical Nutrition Experimental
- Expert Opinion on Drug Discovery
- Molecular and Cellular Endocrinology
- BMC Musculoskeletal Disorders
- Journal of Endocrinology
- iScience

Professional Society

2023	Symposium Chair, “Targeting cancer and cachexia”, Australian Physiological Society Annual Meeting. Melbourne, AUS.
2022	Symposium Chair, “All things muscle”, Australian Physiological Society Annual Meeting. Hobart, AUS.
2020 – 2023	International Physiology Committee, American Physiological Society
2020	Organizing Committee, 3rd Annual Victorian Muscle Network VIRTUAL Symposium
2019	Organizing Committee, 2nd Annual Victorian Muscle Network Symposium
2019	Symposium Chair, “Skeletal muscle adaptation and plasticity”, 2nd Annual Victorian Muscle Network Symposium