

Traci L Parry, PhD

Curriculum Vitae

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Greensboro, NC 27412
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PROFESSIONAL EXPERIENCE

2018 - Present **Assistant Professor** (tenure track)
Department of Kinesiology
University of North Carolina
Greensboro, NC

EDUCATION

2018 **Postdoctoral Research Fellow**
Indiana Center for Musculoskeletal Health &
Department of Pathology and Laboratory Medicine
Indiana University School of Medicine
Indianapolis, IN

2014 – 2018 **Postdoctoral Research Fellow**
McAllister Heart Institute &
Department of Pathology and Laboratory Medicine
University of North Carolina
Chapel Hill, NC

2014 **PhD, Sport & Exercise Science**
Emphasis: Exercise Physiology
Minor: Applied Statistics/Research Methods
University of Northern Colorado
Greeley, CO

2009 **MS, Sport & Exercise Science**
Emphasis: Exercise Science
University of Northern Colorado
Greeley, CO

2007 **BS, Sport & Exercise Science**
Emphasis: Exercise Science
University of Northern Colorado
Greeley, CO

CERTIFICATIONS

- Certified Clinical Exercise Physiologist, American College of Sports Medicine

RESEARCH INTERESTS & AREAS OF EXPERTISE

- Autophagy, ubiquitin proteasome system (protein quality control)
- Cardiovascular physiology/pathophysiology, heart failure
- Cancer cachexia, energetics, & metabolism
- Exercise oncology
- Muscle physiology & atrophy
- Pharmacology
- Physical activity and disease prevention
- Therapeutic benefits of exercise

HONORS AND AWARDS

- 2018 **Abraham D. Sobel ASIP Scholar**
Experimental Biology Annual Meeting, San Diego, CA
- 2017 **Hans-Monga Award for Excellence in Cardiovascular Research**
Experimental Biology Annual Meeting, Chicago, IL
- 2016 **ASIP Experimental Pathologist-in-Training Merit Award**
Experimental Biology Annual Meeting, San Diego, CA
GALL Award for Excellence in Cardiovascular Research
American Society for Investigative Pathology: PISA Annual Meeting,
Houston, TX
Top Postdoctoral Research Poster
McAllister Heart Institute Research Symposium, University of North
Carolina, Chapel Hill
- 2015 **Abraham D. Sobel ASIP Education Fund Scholar**
Experimental Biology Annual Meeting, Boston, MA
- 2013 **Research Excellence Award – Top Graduate Poster**
University of Northern Colorado’s Research Day, Greeley, CO
- 2012 **Research Excellence Award – Top Graduate Poster**
University of Northern Colorado’s Research Day, Greeley, CO
Outstanding Student Presentation – 2nd Place
Rocky Mountain American College of Sports Medicine Annual Conference
Colorado Springs, CO
- 2011 **Research Excellence Award – Top Graduate Poster**
University of Northern Colorado’s Research Day, Greeley, CO
Outstanding Student Presentation – 3rd Place
Rocky Mountain American College of Sports Medicine Annual Conference
Fort Collins, CO
- 2010 **Research Excellence Award – 5th Place**
University of Northern Colorado’s Research Day, Greeley, CO

- 2009 **Outstanding Student Presentation**
Rocky Mountain American College of Sports Medicine Annual Conference
Colorado Springs, CO
- 2007 **Outstanding Student Presentation**
13th Annual SAEOPP/UTK National McNair Scholars Research
Conference, University of Tennessee, Knoxville

GRANTS & FUNDING

Completed

- 2017-2019 **American Heart Association Mid-Atlantic Postdoctoral Fellowship.** Title: Protein Quality Control: MuRF1's Regulation of Autophagic Flux (Award #: 17POST33410344)
- 2015-2016 **North Carolina Translational and Clinical Science Institute**
Title: Effect of exercise on cancer cachexia metabolomics (Grant # 2KR711508)

PUBLICATIONS

Book Chapter

Portman MA, Ledee DR, **Parry TL**, Willis MS: Chapter 10: Nuclear Receptors and the Adaptive Response of the Heart. In: Schisler JC, Lang CH, Willis MS, Eds. *Endocrinology of the Heart in Health and Disease*. 1st ed. Elsevier, 2016.

Refereed

1. Ravi S, **Parry TL**, Willis MS, Lockyer P, Patterson C, Bain JR, Stevens RD, Ilkayeva OR, Newgard CB, Schisler JC. Fenofibrate Induced Cardiac Fibrosis in Mice Deficient in the Protein Quality Control Regulator, CHIP (In Press) J of Cardiovascular Development & Disease. 2018.
2. **Parry TL**, Mota R, Yates C, Tulasi D, Schisler JC, Patterson C, Zaglia T, Sandri M, Willis MS. Increasing Cardiomyocyte Atrogin-1 Reduce Aging-Associated Fibrosis and Regulates Remodeling *In Vivo* (In Press) Amer J Pathology. 2018
3. **Parry TL**, Hayward R. Exercise protects against cancer cachexia-induced cardiac dysfunction while inhibiting tumor growth (In Press) Med Sci Sport Exer. 2018.
4. **Parry TL**, Starnes JW, O'Neal S, Bain JR, Muehlbauer MJ, Honcoop A, Ilaiwy A, Christopher P, Patterson C, Willis MS. Untargeted metabolomics analysis of ischemia-reperfusion-injured hearts ex vivo from sedentary and exercise-trained rats. Metabolomics. 14(8), 2018.
5. Jensen B, **Parry TL**, Huang W, Ilaiwy A, Bain J, Newgard C, Muehlbauer M, O'Neal S, Patterson C, Johnson G, Johnson G, Willis MS. Effects of the Kinase Inhibitor

Sorafenib on Heart, Muscle, Liver, and Serum Metabolism In Vivo using Non-Targeted Metabolomics Analysis. Brit J Pharm. (In Press) 2017.

6. Jensen B, Stuhlmiller T, Zawistowski J, Chen X, Hicks S, Huang W, **Parry TL**, Willis MS, Beak JY, Johnson G. Kinome and transcriptome profiling reveal broad and distinct activities of erlotinib, sunitinib, and sorafenib in the mouse heart and suggest cardiotoxicity from combined STAT and EGFR inhibition. J of Am Heart Association. 6(10), 2017.
7. Mota R, Rodríguez JE, Bonetto A, O'Connell T, **Parry TL**, Lockyer P, McCudden CR, Asher S, Couch M, Willis MS. Post-Translationally Modified Muscle-Specific Ubiquitin Ligases as Circulating Biomarkers in Experimental Cancer Cachexia. Am J Cancer Res. 7(9):1948, 2017.
8. **Parry TL**, Starnes JW, O'Neal S, Bain JR, Muehlbauer MJ, Honcoop A, Ilaiwy A, Christopher PM, Patterson C, Willis MS. Exercise-induced alterations in skeletal muscle, heart, liver, and serum metabolome identified by non-targeted metabolomics analysis. Metabolites. 7(3), 2017.
9. Abdullah M, Kornegay J, Honcoop A, **Parry TL**, Balog C, O'Neal S, Bain JR, Muehlbauer MJ, Newgard C, Patterson C, Willis MS. Non-targeted Metabolomics Analysis of Golden Retriever Muscular Dystrophy-Affected Muscles Reveals Alterations in Arginine and Proline Metabolism, and Elevations in Glutamic and Oleic Acid In Vivo. Metabolites. 7(3):38, 2017.
10. Jensen B, **Parry TL**, Tang W, Ilaiwy A, Bain J, Newgard C, Muehlbauer M, Patterson C, Johnson G, Willis MS. Non-Targeted Metabolomics Analysis of the effects of Tyrosine Kinase Inhibitors Sunitinib and Erlotinib on Heart, Muscle, Liver, and Serum Metabolism In Vivo. Metabolites. 7(3),31, 2017.
11. Brown DI, **Parry TL**, Willis MS. The Hand that Feeds: Ubiquitin Ligases and Post-Translational Regulation of Energy in the Heart. Comprehensive Physiology (7): 841-862, 2017.
12. Files DC, Ilaiwy A, **Parry TL**, Gibbs KW, Liu C, Bain JR, Delbono O, Muehlbauer MJ, Willis MS. Lung injury-induced skeletal muscle wasting in aged mice is linked to alterations in long chain fatty acid metabolism. Metabolomics 12(134) 2016.
13. **Parry TL** & Willis MS. Regulation of Autophagy by Ubiquitin Ligases: Their Role in Cardiac Metabolism, Cardioprotection and Therapeutic Potential. BBA Mol Basis for Disease 1862(12):2259-2269, 2016.
14. Quintana MQ, **Parry TL**, He J, Yates CC, Sidorova TN, Murray KT, Bain JR, Newgard CB, Muehlbauer MJ, Eaton S, Takayama S, Willis MS. Cardiomyocyte-specific Bag3+ Mutation P209L Induces Mitochondrial Fragmentation, Bag3 Haploinsufficiency, and Activates p38 Signaling. Circulation, 132(3), A18238-A18238 2016.

15. Ilaiwy A, Liu M, **Parry TL**, Bain JR, Newgard CB, Schisler JC, Muehlbauer MJ, Despa F, Willis MS. Human amylin proteotoxicity impairs protein biosynthesis, and alters major cellular signaling pathways in the heart, brain and liver of humanized diabetic rat model in vivo. Metabolomics 12(95) 2016.
16. **Parry TL**, Desai G, Schisler JC, Li L, Quintana MT, Stanley N, Lockyer P, Patterson C, Willis MS. Fenofibrate unexpectedly induces cardiac hypertrophy in mice lacking MuRF1. Cardiovascular Pathology (25) 127-140, 2015.
17. **Parry TL**, Hayward R. Exercise training does not affect anthracycline antitumor efficacy while attenuating cardiac dysfunction. Am J Physiol Regul Integr Comp Physiol 309:6, R675-R683, 2015.
18. He J, Quintana MT, Sullivan J, **Parry TL**, Grevengoed T, Schisler JC, Hill JA, Yates CC, Mapanga RF, Essop MF, Stansfield WE, Bain JR, Willis MS, Newgard CB, Muehlbauer MJ, Han Y, Clark BA. MuRF2 Regulates PPAR γ 1 Activity to Protect Against Diabetic Cardiomyopathy and Enhance Weight Gain Induced by a High Fat Diet. Cardiovascular Diabetology 14(9), 2015.
19. **Parry TL**, Melehani JH, Ranek MJ, Willis MS. Functional amyloid signaling via the inflammasome, necrosome, and signalosome: new therapeutic targets in heart failure. Frontiers in Cardiovascular Medicine 2 (25), 2015.
20. **Parry TL**, Hydock DS, Jensen BT, Lien CY, Schneider CM, Hayward R. Endurance exercise attenuates cardiotoxicity by androgen deprivation and doxorubicin. Canadian Journal of Pharmacology and Physiology 92(5): 356-362, 2014.
21. Hydock DS, **Parry TL**, Wymore JD, Iwaniec UT, Turner RT, Schneider CM, Hayward R. Effects of treadmill training on combined goserelin acetate and doxorubicin-induced osteopenia in the female rat. Journal of Musculoskeletal and Neuronal Interactions 14 (1): 10-18, 2014.
22. Hayward R, Hydock DS, Gibson N, Greufe S, Bredahl E, **Parry TL**. Tissue Retention of Doxorubicin and its Effects on Cardiac, Smooth, and Skeletal Muscle Function. Journal of Physiology and Biochemistry. 69 (2): 177-187, 2013.
23. Hydock DS, Lien C-Y, Jensen BT, **Parry TL**, Schneider CM, Hayward R. Rehabilitative Exercise in a Rat Model of Doxorubicin Cardiotoxicity. Experimental Biology and Medicine (237) 12: 1483-1492, 2012.
24. Hydock DS, **Parry TL**, Jensen BT, Lien CY, Schneider CM, Hayward R. Effects of endurance training on combined goserelin acetate and doxorubicin treatment-induced cardiac dysfunction. Cancer Chemotherapy and Pharmacology 68: 685-692, 2010.
25. Hydock DS, Iwaniec UT, Turner RT, Lien CY, Jensen BT, **Parry TL**, Hayward R. Effects of voluntary wheel running on goserelin acetate-induced bone degeneration. Pathophysiology 15: 253-259, 2008.

Selected Posters, Abstracts, and Oral Presentations

Invited Oral Presentations

1. **Parry TL**, Starnes JW, Ilaiwy A, Bain JR, Muehlbauer MJ, Honcoop A, Newgard CB, Christopher P, Willis MS. Non-targeted Metabolomics Identifies Exercise-induced Cardioprotective Metabolic Pathways That Negate Ischemia Reperfusion Injury. University of North Carolina Pathology Symposium, Chapel Hill, NC, 2017.
2. **Parry TL**, Hill JA, Willis MW. Protein Quality Control: Muscle-specific ubiquitin ligase MuRF1 regulates cardiac autophagic flux. Oral Presentation. Leducq Foundation TransAtlantic Collaboration, Naples, Italy, 2016.
3. **Parry TL**, Quintana MT, Hill JA, Willis MW. Muscle-specific ubiquitin ligase MuRF1 regulates myocardial autophagic flux *in vivo*. Oral Presentation. Leducq Foundation TransAtlantic Collaboration, Austin, TX, 2015.
4. **Parry TL** & Willis MS. Muscle-specific ubiquitin ligase MuRF1 regulates myocardial autophagic flux *in vivo*. Oral Presentation. Women in Science and Engineering Conference at Duke, Durham, NC, 2015.
5. **Parry TL** & Brown JM. Cancer rehabilitation: from bench to bedside, a translational approach. Statistics and Research Methods Colloquium. University of Northern Colorado, Greeley, CO, 2012.
6. **Parry TL**, Hydock DS, Jensen BT, Lien CY, Schneider CM, Hayward R. Endurance Exercise Attenuates Cardiotoxicity Induced by Androgen Deprivation and Doxorubicin. Rocky Mountain American College of Sports Medicine Annual Conference, Fort Collins, CO, 2011.
7. **Parry TL**, Wilkerson, G, Hydock DS, Jensen BT, Lien CY, Schneider CM, Hayward R. Histological Evaluation of Doxorubicin-Induced Cardiotoxicity in the Exercise Trained Rat. Rocky Mountain American College of Sports Medicine Annual Conference, United States Olympic Training Center, Colorado Springs, CO, 2009
8. **Parry TL**, Functional Training for Cardiac Populations. North Colorado Medical Center, Greeley, CO, 2007
9. **Parry TL**, Effects of Exercise Training on Doxorubicin Induced Cardiotoxicity. McNair Scholars Program Welcome Reception, University of Northern Colorado Greeley, CO, 2007

Refereed Abstracts

1. **Parry TL**, Huang W, Beak JY, Jensen B, Willis MS. Doxorubicin exposure causes subacute cardiac atrophy dependent upon the striated muscle specific ubiquitin ligase Muscle Ring Finger-1. New Directions, 2018. New Orleans, LA.

2. **Parry TL**, Willis MS. The muscle-specific ubiquitin ligase MuRF1 regulates autophagy *in vivo* via FOXO1/3 ubiquitination to inhibit NF- κ B signaling and protect against cardiac inflammation *in vivo*. *New Directions*, 2018. New Orleans, LA.
3. **TL Parry**, JC Schisler, JM Mwiza, JK Durand, AS Baldwin, MS Willis. The muscle-specific ubiquitin ligase MuRF1 regulates autophagy via FOXO1/3 ubiquitination to inhibit NF- κ B signaling and protect against cardiac inflammation *in vivo*. *Experimental Biology*, 2018. San Diego, CA.
4. MS Willis, RH Oakley, **TL Parry**, JA Cidlowski, MJ Campen. Muscle-specific regulation of right ventricular transcriptional responses to chronic hypoxia induced heart failure by the Muscle Ring Finger-1 (MuRF1) ubiquitin ligase *in vivo*. *Experimental Biology*, 2018. San Diego, CA.
5. **Parry TL**, Mota R, Willis MS. The muscle-specific ubiquitin ligase Atrogin-1 (MAFbx) inhibits age-associated cardiac fibrosis by enhancing MMP-9 levels *in vivo*. *International Society of Heart Research – North America Section*, 2017, New Orleans, LA.
6. **Parry TL**, Mota R, Mwiza JM, Willis MS. The muscle-specific ubiquitin ligase MuRF1 attenuates LPS-induced cardiomyopathy by inhibiting NF- κ B signaling via a TRAF6-TAK1 associated mechanism *in vivo*. *International Society of Heart Research – European Section*, 2017, Hamburg, Germany.
7. **Parry TL**, Brown DI, Mwiza JM, Willis MS. Muscle Ring Finger-1 Knockout (MuRF1^{-/-}) Mice are Resistant to LPS-induced Cardiac Dysfunction Due to Decreased NF- κ B Activity. *Experimental Biology*, 2017. Chicago, IL.
8. **Parry TL**, Starnes JW, Ilaiwy A, Bain JR, Muehlbauer MJ, Honcoop A, Newgard CB, Christopher P, Willis MS. Non-targeted Metabolomics Identifies Exercise-induced Cardioprotective Metabolic Pathways That Negate Ischemia Reperfusion Injury. *American College of Sports Medicine Annual Conference*, Denver, CO, 2017.
9. Tang W, **Parry TL**, Willis MS. Short-term Unloading of Myocytes Reveals MuRF1's Novel Role in Phenylalanine/Valine Metabolism and tRNA Biosynthesis. Poster Presentation. *Advances in Skeletal Muscle Biology in Health and Disease*. March 2017. Gainesville, FL.
10. **Parry TL**, Kornegay JN, Willis MS. Non-targeted Metabolomics Analysis of Muscular Dystrophy-Affected Muscles Reveals Alterations in Arginine and Proline Metabolism, and Elevations in Glutamic and Oleic Acid *In Vivo*. Poster Presentation. *Advances in Skeletal Muscle Biology in Health and Disease*. March 2017. Gainesville, FL.
11. **Parry TL**, Brown DI, Willis MS. Muscle Ring Finger1 knockout (MuRF1^{-/-}) Mice are Resistant to LPS-induced Cardiac Dysfunction *In Vivo* Due, In Part, to Significantly Increased Cardiac PPAR α Activity Competitively Inhibiting NF κ B. *University of North Carolina, Pathology Research Symposium*, Chapel Hill, NC, 2016.

12. **Parry TL**, Jensen BJ, Ilaiwy A, Willis MS. Identification of disrupted alanine and taurine/hypotaurine metabolic pathways in trametinib and sorafenib-associated cardiotoxicity and parallel serum metabolites using non-targeted metabolomics. Lineberger Comprehensive Cancer Center Research Day. Chapel Hill, NC, 2016.
13. Mota R, **Parry TL**, Couch M, Willis MS. Identification of Atrogin-1 as a circulating marker of cancer cachexia in the C26 adenocarcinoma mouse model *in vivo*. Lineberger Comprehensive Cancer Center Research Day. Chapel Hill, NC, 2016.
14. **Parry TL**, Brown DI, Willis MS. Muscle Ring Finger1 knockout (MuRF1^{-/-}) Mice are Resistant to LPS-induced Cardiac Dysfunction *In Vivo* Due, In Part, to Significantly Increased Cardiac PPAR α Activity Competitively Inhibiting NF κ B. ASIP PISA Meeting, 2016. Houston, TX.
15. Jensen BC, **Parry TL**, Brown DI, Willis MS. Inhibiting the Myocyte Specific Ubiquitin Ligase MuRF1 (Muscle Ring Finger1) Attenuates Acute Doxorubicin-Induced Cardiomyopathy *In Vivo*. ASIP PISA Meeting, 2016. Houston, TX.
16. **Parry TL** & Hayward R. Exercise protects against cancer-induced cardiac dysfunction while inhibiting tumor growth. *Med Sci Sports Exerc.* 48(5 Suppl 1):512-3, 2016. Poster Presentation, American College of Sports Medicine, Boston, MA.
17. **Parry TL** & Willis MS. Regulation of cardiac autophagic flux *in vivo* by the ubiquitin ligase muscle ring finger-1 (MuRF1) Oral Presentation. Experimental Biology, San Diego, 2016. Poster presentation FASEB J 30 (1 Supplement), 444, April 2016. Experimental Biology 2016, San Diego, CA.
18. Files DC, Ilaiwy A, **Parry TL**, Gibbs KW, Liu C, Bain JR, Delbono O, Muehlbauer MJ, Willis MS. Lung Injury-Induced Skeletal Muscle Wasting in Aged Mice is Linked to Alterations in Long-Chain Fatty Acid Metabolism. Poster presentation. Claude D. Pepper Older Americans Independence Center 2016 Annual Meeting. April 18-19, 2016. Arlington, VA.
19. Ilaiwy A, **Parry TL**, Bain JR, Muehlbauer MJ, Willis MS, Files C. Muscle function recovery after acute lung injury is impaired in aged mice, linked in part, to metabolic alterations attributed to MuRF1 by quantitative targeted metabolomics analysis of acylcarnitines. Late breaking abstract poster presentation (AI). FASEB J. April 2016. Experimental Biology 2016, San Diego, CA.
20. Files DC, **Parry TL**, Bain JR, Muehlbauer MJ, Willis MS. Failed recovery of muscle function in aged mice with lung injury is linked to specific metabolic alterations by non-targeted metabolomics *in vivo*. American Thoracic Society Annual Meeting. Late breaking abstract poster presentation (DCF), May 13-18, 2016. San Francisco, CA
21. **Parry TL**, Hayward R. Exercise training does not affect doxorubicin anti-tumor efficacy while attenuating cardiac dysfunction. Poster Presentation. American College of Sports Medicine National Conference, San Diego, CA, 2015.

22. **Parry TL**, Desai G, Stanley N, Schisler JC, Willis MS. Cardiac MuRF1 regulates PPAR- α agonist-induced spontaneous cardiac hypertrophy *in vivo*. Poster Presentation. Experimental Biology, Boston, MA, 2015.
23. **Parry TL**, Quintana MT, Hill JA, Willis MW. Muscle-specific ubiquitin ligase MuRF1 regulates myocardial autophagic flux *in vivo*. Oral Presentation. Experimental Biology, Boston, MA, 2015. Poster Presentation. UNC McAllister Heart Institute/Integrative Vascular Biology Symposium, Chapel Hill, NC, 2015.
24. **Parry TL**, Hydock DS, Hayward R. Effect of endurance exercise on cardiac function, doxorubicin accumulation, and treatment efficacy in the tumor-bearing rat. Poster Presentation. UNC Department of Pathology and Laboratory Medicine Annual Research Symposium, Chapel Hill, NC, 2014.
25. **Parry TL**, Hydock DS, Schneider CM, Hayward R. Effect of exercise training on tumor growth and cardiac function in the rat cancer model. Poster Presentation. American College of Sports Medicine National Conference, Orlando, FL, 2014.
26. **Parry TL**, Hydock DS, Hayward R. Effect of aerobic exercise training on cancer induced cardiac dysfunction. Poster Presentation. Rocky Mountain American College of Sports Medicine Annual Conference, Denver, CO, 2014. Poster Presentation. University of Northern Colorado Research Day, Greeley, CO, 2014.
27. **Parry TL**, Greufe SE, Gibson NM, Hydock DS, Schneider CM, Hayward R. Cardiac dysfunction in the tumor bearing rat. Poster Presentation. American College of Sports Medicine National Conference, Indianapolis, IN, 2013. Poster Presentation. Rocky Mountain American College of Sports Medicine Annual Conference, Denver, CO, 2013.
28. **Parry TL**, Iwaniec UT, Turner RT, Ying CY, Jensen BT, Hydock DS, Schneider, CM, Hayward R. Voluntary wheel running does not protect against doxorubicin-induced osteopenia in the growing rat. Poster Presentation. American College of Sports Medicine National Meeting, San Francisco, CA, 2012. Poster Presentation. Rocky Mountain American College of Sports Medicine Annual Conference, Fort Collins, CO, 2012.
29. Greufe SE, Gibson N, **Parry T**, Hydock DS, Schneider CM, Hayward, R. Effects of calorie Restriction and voluntary exercise on doxorubicin-induced cardiac dysfunction. Poster Presentation. American College of Sports Medicine National Meeting, San Francisco, CA, 2012.
30. Bredahl E, Gibson N, Greufe S, Pfannenstiel K, **Parry T**, Schneider C, Hayward R, Hydock DS. Intramuscular doxorubicin accumulation and skeletal muscle function. Poster Presentation. American College of Sports Medicine National Meeting, San Francisco, CA, 2012.
31. **Parry TL**, Hydock DS, Jensen BT, Lien CY, Schneider CM, Hayward R. Endurance Exercise Attenuates Cardiotoxicity Induced by Androgen Deprivation and Doxorubicin. Poster Presentation. American College of Sports Medicine National Meeting, Denver, CO, 2011. Poster Presentation. Rocky Mountain American College

of Sports Medicine Annual Conference, Fort Collins, CO, 2011. Theme Poster Presentation. American College of Sports Medicine National Meeting, Baltimore, MD, 2010.

32. Hydock DS, Lien CY, Jensen BT, **Parry TL**, Schneider CM, Hayward R. Effects of in vivo doxorubicin treatment on skeletal muscle function. Poster Presentation. American College of Sports Medicine National Meeting, Denver, CO, 2011.
33. Hydock DS, Lien CY, Jensen BT, **Parry TL**, Malcolm W, Schneider CM, Hayward R. Concurrent wheel running and weekly doxorubicin treatment in the rat: effects of cardiac function. Slide Presentation. American College of Sports Medicine National Meeting, Baltimore, MD, 2010.
34. **Parry TL**, Hydock DS, Jensen BT, Lien CY, Schneider CM, Hayward R. Effects of endurance training on cardiotoxicity induced by combined treatment with doxorubicin and Goserelin acetate. Poster Presentation. University of Northern Colorado Research Day, Greeley, CO, 2010. Poster Presentation, American College of Sports Medicine National Meeting, Seattle, WA, 2009. Poster Presentation, Rocky Mountain American College of Sports Medicine Annual Conference, United States Olympic Training Center, Colorado Springs, CO, 2009.
35. Hydock DS, Lien CY, Jensen BT, **Parry TL**, Schneider CM, Hayward R. Cardioprotective effects of voluntary wheel running during and following doxorubicin treatment. Slide Presentation, American College of Sports Medicine National Meeting, Seattle, WA, 2009.
36. Jensen BT, Hydock DS, Lien CY, **Parry TL**, Schneider CM, Hayward R. Effects of low vs. high intensity short-term exercise on doxorubicin-induced cardiotoxicity. Slide Presentation, American College of Sports Medicine National Meeting, Seattle, WA, 2009.
37. **Parry TL**, Hydock DS, Iwaniec UT, Turner RT, Lien CY, Jensen BT, Hayward R. Effects of goserelin acetate and voluntary wheel running on bone morphology in female rats. Slide Presentation, American College of Sports Medicine National Meeting, Indianapolis, IN, 2008.
38. **Parry TL**, Effects of Exercise Training on Doxorubicin Induced Cardiotoxicity Slide Presentation, 13th Annual SAEOPP/UTK McNair Scholars Research Conference, University of Tennessee, Knoxville, 2007.
39. **Parry TL**, Effects of Exercise Training on Doxorubicin Induced Cardiotoxicity. Slide Presentation, University of Colorado Research Day, Greeley, CO, 2007.

TEACHING RECORD

2018 **Lifetime Wellness** (Lecture), KIN 220
Kinesiology
University of North Carolina, Greensboro

- 2013 – 2014 **Exercise Physiology I** (Lecture), SES 322
School of Sport and Exercise Science
University of Northern Colorado
- Cardiac Rehabilitation** (Lecture), SES 410/510
School of Sport and Exercise Science
University of Northern Colorado
- Exercise Prescription & Programming** (Laboratory), SES 490
School of Sport and Exercise Science
University of Northern Colorado
- 2012 – 2013 **Exercise Physiology II** (Laboratory), SES 324
School of Sport and Exercise Science
University of Northern Colorado
- 2010 – 2011 **Exercise Physiology I** (Lecture), SES 322
School of Sport and Exercise Science
University of Northern Colorado
- 2010 – 2012 **Capstone Seminar: Grad School** (Lecture), HESA 422
McNair Scholars Program
University of Northern Colorado
- Research Methods I & II** (Lecture), HESA 432 & 433
McNair Scholars Program
University of Northern Colorado
- 2009 – 2014 **University of Northern Colorado Cancer Rehabilitation Institute
Cancer Exercise Specialist Workshop** (Instructor)
- Taught and certified clinical and exercise professionals to be “Certified Cancer Exercise Specialists”
 - World renowned workshop; workshop participants (clinical and exercise professionals) were from around the world (United Kingdom, Korea, Japan, Australia, New Zealand, etc)

PROFESSIONAL POSITIONS

- 2014-2018 IACUC Laboratory Animal Coordinator
University of North Carolina
Chapel Hill, NC
- 2012-2014 Graduate Teaching Assistant
School of Sport and Exercise Science
University of Northern Colorado
Greeley, CO
- 2007-2014 Research Associate
Rocky Mountain Cancer Rehabilitation Institute

University of Northern Colorado
Greeley, CO

2007-2012 Graduate Teaching Assistant
McNair Scholars Program
University of Northern Colorado
Greeley, CO

2007-2011 Cancer Exercise Specialist (Clinical Exercise Trainer)
Rocky Mountain Cancer Rehabilitation Institute
University of Northern Colorado
Greeley, CO

2007 Cardiac Rehabilitation Exercise Specialist (Clinical Exercise Trainer)
Northern Colorado Medical Center
Greeley, CO

SERVICE

2018 **Member**, Committee for Career Development & Diversity
American Society for Investigative Pathology

Chair, Meet the Mentor – Committee for Career Development & Diversity; **Co-Chair**, Mechanisms of Injury, Inflammation, and Repair in the Failing Heart
Experimental Biology, ASIP Sponsored Symposium

Co-Chair, SCVP Symposium: Non-Conventional Players in Heart Disease
Experimental Biology, Society for Cardiovascular Pathology & ASIP Sponsored Symposium

2017 **Co-Chair**, Heart Failure – New Insights into its Pathobiology
Experimental Biology, Sponsored Symposium

Co-Chair, Highlights: Graduate Student Research in Pathology
Experimental Biology, ASIP Sponsored Symposium

2015-2016 **Women in Science (WinS)**
University of North Carolina

Carolina ADMIRES
(Assisting in Development and Mentoring an Innovative Research Experience in Science!)
Mentor
University of North Carolina

2014-2016 **Ad hoc Reviewer**
Journal: Pathophysiology

- 2009-2014 **Volunteer Committee Chair**
Planning Committee Member
Race Against Cancer
Greeley, CO
- 2007-2014 **Cancer Exercise Specialist and Assessor**
Rocky Mountain Cancer Rehabilitation Institute
University of Northern Colorado
- 2006-2007 **Functional Exercise Trainer** (for elderly population balance study)
University of Northern Colorado
School of Sport and Exercise Science

PROFESSIONAL MEMBERSHIP

- 2014-Present American Society for Investigative Pathology
2010-Present American Physiological Association
2010-Present American Heart Association
2006-Present American College of Sports Medicine