

## Lemuel W. Taylor IV

Professor, Doctor of Physical Therapy  
Program  
Director, Office of Graduate Studies  
School of Health Professions  
Mayborn College of Health Sciences  
University of Mary Hardin-Baylor  
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[Google Scholar](#)  
[ResearchGate](#)

## RESEARCH SUMMARY

### Peer-Reviewed Publications

**213 total publications**

64 articles    149 abstracts

### Google Scholar Metrics

**citations: 7872**

h-index: 29    i10-index: 39

### Research Funding (at UMHB)

**\$1,817,163** Total

**\$988,473** as PI

## CURRICULUM VITA

### EDUCATION

#### Doctor of Philosophy

Baylor University, Department of Health, Human Performance, and Recreation  
Exercise, Nutrition, and Preventive Health: Muscle Physiology & Sport Nutrition (August 2006)

#### Master of Science

Texas Christian University, College of Health and Human Sciences  
Exercise Physiology: Muscle Physiology (August 2003)

#### Bachelor of Science

Abilene Christian University, Department of Health & Exercise Science  
Exercise Physiology (May 2001)

### ACADEMIC AND PROFESSIONAL EXPERIENCE

#### Professor, Doctor of Physical Therapy Program

School of Health Professions, Mayborn College of Health Sciences, University of Mary Hardin-Baylor,  
June 2022 to Present.

#### Director of Graduate Studies

Office of Graduate Studies, University of Mary Hardin-Baylor, Fall 2018 to Present.

#### Executive Director, Texas Chapter of the American College of Sports Medicine

Fall 2016 to Present.

#### Adjunct Professor, Master of Science in Physician Assistant Program

School of Health Professions, Mayborn College of Health Sciences, University of Mary Hardin-Baylor,  
Fall 2024 to Present.

#### Adjunct Professor, Exercise Physiology Program

School of Exercise & Sport Science, Mayborn College of Health Sciences, University of Mary Hardin-Baylor, June 2022 to Present.

**Professor, Exercise Physiology and Nutrition**

School of Exercise & Sport Science, Mayborn College of Health Sciences, University of Mary Hardin-Baylor, June 2019 to May 2022.

**Graduate Program Director, Exercise Physiology Program (M.S.)**

School of Exercise & Sport Science, Mayborn College of Health Sciences, University of Mary Hardin-Baylor, Fall 2015 to Summer 2022.

**Director, Human Performance Laboratory**

School of Exercise & Sport Science, Mayborn College of Health Sciences, University of Mary Hardin-Baylor, Summer 2018 to Summer 2022.

**Associate Editor, Journal of International Society of Sports Nutrition**

International Society of Sports Nutrition, Deerfield Beach, FL, Fall 2013 to Present.

**Associate Professor of Exercise Physiology and Nutrition**

School of Exercise & Sport Science, Mayborn College of Health Sciences, University of Mary Hardin-Baylor, Summer 2014 to Spring 2019.

**Program Coordinator, Exercise Physiology Major (B.S.)**

School of Exercise & Sport Science, Mayborn College of Health Sciences, University of Mary Hardin-Baylor, Fall 2015 to Spring 2021.

**Director of Research, Human Performance Laboratory**

School of Exercise & Sport Science, Mayborn College of Health Sciences, University of Mary Hardin-Baylor, Fall 2016 to Summer 2018.

**Program Coordinator, Pre-Physical Therapy in Exercise Science Major**

Exercise & Sport Science Department, College of Education, University of Mary Hardin-Baylor, Fall 2010 to Fall 2015.

**Director, Exercise Biochemistry Laboratory**

In conjunction with the Human Performance Laboratory, Department of Exercise & Sport Science, College of Education, University of Mary Hardin-Baylor, Spring 2009 to Summer 2018.

**President, Texas Chapter of the American College of Sports Medicine**

February 2014 to March 2015.

**Chair, UMHB Institutional Review Board**

University of Mary Hardin-Baylor, Summer 2011 to May 2015.

**Assistant Professor of Exercise Physiology**

Exercise & Sport Science Department, College of Education, University of Mary Hardin-Baylor, Fall 2008 to Spring 2014.

**President, International Society of Sports Nutrition**

ISSN-Advisory Board, Deerfield Beach, FL, Summer 2011 to Summer 2014.

**Board of Directors, Non-Medicine Representative**

Texas Chapter of American College of Sports Medicine, Spring 2009 to 2013.

**Assistant Professor of Exercise Physiology**

Department of Health, Leisure, and Exercise Science, College of Professional Studies, University of W. Florida, Fall 2006 to Spring 2008.

**Laboratory Coordinator**

Exercise & Biochemical Nutrition Laboratory, Baylor University, Waco, TX, 2003 to 2006.

**Doctoral Research Assistant**

Exercise & Biochemical Nutrition Laboratory, Baylor University, Waco, TX, 2003 to 2006.

**Student Representative on the Board of Directors**

Texas Chapter of American College of Sports Medicine, 2003 to 2006.

**Adjunct Lecturer**

Department of Health, Human Performance, & Recreation, Baylor University, 2004 to 2006.

**Departmental Research & Teaching Assistant**

Department of Kinesiology, Texas Christian University, 2001 to 2003.

**TEACHING****Undergraduate Courses Currently Taught at the University of Mary Hardin-Baylor**

- Physiology of Exercise II (EXSS 3396)

**Graduate Courses Currently Taught at the University of Mary Hardin-Baylor**

- Applied Physiology II (PHTH 7423)
- Human Physiology I (PAMS 6220)
- Therapeutic Interventions (PHTH 7422) lab only

**Undergraduate Courses Previously Taught (All Institutions)**

- Seminar in Pre-PT (EXSS 4103)
- Exercise Testing & Prescription (EXSS 4394)
- Physiology of Exercise I (EXSS 3395)
- Physiology of Exercise II (EXSS 3396)
- Sports Nutrition (EXSS 3354)
- Test and Measurements (EXSS 4392)
- Medical Terminology (EXSS 2355)
- Introduction to Exercise & Sport Science (EXSS 2340)
- CrossFit (EXSS 4140)
- Advanced Resistance Training (EXSS 2135)
- Weight Training (EXSS 2133)
- Exercise Physiology (PET 3351), Fall 2006–Spring 2008
- Exercise Endocrinology (PET 4991), Fall 2007
- Sport Nutrition & Weight Management (PET 4361), Fall 2006, Spring & Summer 2007
- Measurement & Evaluation (PET 3510), Fall 2006, Spring & Summer 2007
- Exercise Physiology Laboratory (HP 2420A & B), Fall 2005–Spring 2006
- Human Anatomy and Physiology Lab (HP 1420A & B), Spring 2005–Spring 2006
- Beginning Racquetball (HP 1156), Fall 2004
- Fitness Theory and Practice (HP 1134), Summer 2004
- Personal Fitness and Health (Teaching Assistant), Fall 2001–Spring 2002
- Beginning Weight Training, Fall 2001–2003
- Beginning Racquetball, Fall 2002–2003
- Beginning Soccer, Fall 2002–2003
- Concepts of Health and Fitness (Teaching Assistant), Fall 2000–Spring 2001
- Beginning Weight Training, Fall 2000–2001
- Walk, Jog, & Run, Spring 2001

### Graduate Courses Previously Taught (All institutions)

- Cardiopulmonary and Acute Care Management (Lab only) (PHTH 7441)
- Applied Physiology I (PHTH 7313)
- Applied Physiology II (PHTH 7423)
- Special Topics: Nutritional Strategies to Optimize Patient Recovery and Performance During Rehabilitation (PHTH 7191)
- Therapeutic Interventions (PHTH 7422) lab only
- Critical Inquiry II (PHTH 7148)
- Advanced Exercise Physiology (EXSS 6380)
- Clinical Exercise Physiology (EXSS 6355)
- Exercise & Nutritional Biochemistry (EXSS 6375)
- Exercise Endocrinology (EXSS 6381)
- Advanced Statistics and Applied Research (EXSS 6360)
- Research Methods (EXSS 6352)
- Musculoskeletal & Biomechanical Assessment (EXSS 6381)

## PUBLICATIONS

### Books

1. **Taylor, L** (Editor). **Nutritional Guidelines for Athletic Performance: The Training Table**. CRC Press, Taylor & Francis Group. March 2012.

### Book Chapters

1. Burgess, V., **L. Taylor**, & J Antonio. Coffee as a Functional Beverage. In: Wildman, Robert E.C. (2020). **Handbook of Nutraceuticals and Functional Foods, 3<sup>rd</sup> Edition**. CRC Press, Boca Raton, FL. pp. 453-462.
2. Dufour, F. & **L. Taylor**. Micronutrient Needs of Athletes. In: **Nutritional Guidelines for Athletic Performance: The Training Table**. Lem W. Taylor IV (Editor), CRC Press, Taylor & Francis Group. March 2012. pp. 159-174.
3. Roberts, M, & **L. Taylor**. Introduction: The Role of the Training Table. In: **Nutritional Guidelines for Athletic Performance: The Training Table**. Lem W. Taylor IV (Editor), CRC Press, Taylor & Francis Group. March 2012. pp. 1-6.
4. **Taylor, L.**, C. Wilborn, A. Smith, & J. Antonio. Ergogenic Aids. In: **Conditioning for Strength and Human Performance, 2e**. TJ Chandler and L. Brown (Eds), Lippincott Williams & Wilkins. 2012. pp. 143-162.
5. Wilborn, C., **L. Taylor**, A. Smith, & J. Antonio. Nutrition. In: **Conditioning for Strength and Human Performance, 2e**. TJ Chandler and L. Brown (Eds), Lippincott Williams & Wilkins. 2012. pp. 521-536.
6. Dugan, K, & **L. Taylor**. Lipids: A Dense Fuel Supply and Important Cellular Component. In: **Nutrient Timing: Metabolic Optimization for Health, Performance and Recovery**. Chad M. Kerksick (Editor), CRC Press, Taylor & Francis Group. 2011. pp. 61-80.
7. **Taylor, L.**, Marcello, B, & Kreider, RB. The Training Table. In: Kreider RB, Leutholtz BC, Katch FI, Katch VL (2009). **Exercise & Sport Nutrition: Principles, Promises, Science, & Recommendations**. Fitness Technologies Press, Santa Barbara, CA. pp. 85-92.
8. **Taylor, L.**, Ziengenfuss, T, & Kreider, RB. Prohormones and Anabolic Potentiators. In: Kreider RB, Leutholtz BC, Katch FI, Katch VL (2009). **Exercise & Sport Nutrition: Principles, Promises, Science, & Recommendations**. Fitness Technologies Press, Santa Barbara, CA. pp. 345-368.
9. **Taylor, L.**, Leutholtz, B, & Kreider, RB. Vitamins & Minerals. In: Kreider RB, Leutholtz BC, Katch FI, Katch VL (2009). **Exercise & Sport Nutrition: Principles, Promises, Science, & Recommendations**. Kreider, R. & B. Leutholtz (Eds.). Fitness Technologies Press, Santa Barbara, CA. pp. 229-256.

10. Wilborn, C. & **Taylor, L.** Basic Exercise Physiology. In: Kreider RB, Leutholtz BC, Katch FI, Katch VL (2009). **Exercise & Sport Nutrition: Principles, Promises, Science, & Recommendations.** Fitness Technologies Press, Santa Barbara, CA. pp. 33-52.
11. **Taylor, L.** & J Antonio. Coffee as a Functional Beverage. In: Wildman, Robert E.C. (2007). **Handbook of Nutraceuticals and Functional Foods, Second Edition.** CRC Press, Boca Raton, FL. pp. 453-467.

## Referred Journal Articles

### In review/preparation

- Zaragoza, J.A., A. Anzalone, A. Kreutzer, A. Askow, J. Oliver, D. Julovich, J. Hall, S. O'Bryant, S. Urbina, & **L. Taylor.** Fluctuations in Blood Biomarkers of Head Trauma in NCAA Soccer Athletes over the Course of a Season. **Journal of Neurotrauma**, In Review.
- Florez, C.M., G. Tinsley, J.A. Zaragoza, J. Prather, S. Urbina, C. Wilborn, & **L.W. Taylor.** Acute Response of Nutritive vs Non-Nutritive Sweeteners in Sodas on Blood Glucose and Satiety. **Physiology & Behavior**, In submission.
- Prather, J., J.A. Zaragoza, C. Harrison, J. Goonan, M. Tinnin, A.H. Secrest, Lem Taylor, Nathan Elsworthy, & Vincent J. Dalbo. No Differences in Match Demands Between Men's and Women's International Touch Rugby. **International Journal of Sports Physiology and Performance**, In submission.

### Published manuscripts in peer-reviewed journals

1. Florez, C.M., G.M. Tinsley, J. Zaragoza, J. Prather, M. Parra, J. Kelly, A. Vargas, A. Ross, Jäger, R., M. Purpura, G.M. Tinsley, & **L. Taylor.** Effects Of Postbiotic Supplementation On Blood Amino Acid Appearance Patterns When Consuming A Plant Based Meal. **Probiotics and Antimicrobial Proteins (2025)**. <https://doi.org/10.1007/s12602-025-10480-y>.
2. Jäger, R., M. Purpura, J. Kelly, N. Keratsopoulos, M.E. Parra, A.H. Secrest, G.M. Tinsley, & **L. Taylor.** Glycoprotein Matrix Iron Exhibits Improved Absorption: A Double-blind, Randomized Crossover Trial. **Cureus Journal of Medical Science (2025) 17(3): e80224**. [doi:10.7759/cureus.80224](https://doi.org/10.7759/cureus.80224)
3. Prather, J.M., C.M. Florez, A. Vargas, B. Soto, A. Ross, A. Harrison, A.H. Secrest, D. Willoughby, S. Kutter & **L.W. Taylor.** Impact of CYP1A2 Genotypes on the Ergogenic Effects and Subjective Mood States of Caffeine Ingestion in Resistance-Trained Women. **Nutrients (2024), 16, 2767**. <https://doi.org/10.3390/nu16162767>.
4. Plotkin, D.L., L. Madison, D. A. Mattingly, D.A. Anglin, J. Michel, J.S. Godwin, M.M. McIntosh, J.G. Bergamasco, M.C. Scarpelli, V. Angleri, **L.W. Taylor**, D.S. Willoughby, C.B. Mobley, A.N. Kavazis, C. Ugrinowitsch, C.A. Libardi, & M.D. Roberts. Skeletal Muscle Myosin Heavy Chain Protein Fragmentation As A Novel Response Marker To Resistance Training And Disuse Atrophy. **Experimental Physiology (2024), Accepted and In press**. Preprint: <https://pubmed.ncbi.nlm.nih.gov/38826385/>
5. Jäger, R., M. Purpura, J. Davis, N. Keratsopoulos, M.E. Parra, A.H. Secrest, G.M. Tinsley, & **L. Taylor.** Glycoprotein Matrix Zinc Exhibits Improved Absorption: A Randomized Crossover Trial. **Nutrients (2024), 16, 1012**. <https://doi.org/10.3390/nu16071012>.
6. Florez C.M., J. Prather, D. Miller, A. Vargas, B. Soto, A. Harrison, G. Tinsley & **L. Taylor.** The Effects of Two Servings of a Thermogenic Supplement on Metabolism, Hemodynamic Variables, and Mood State Outcomes in Young Overweight Adults. **Cureus Journal of Medical Science (2024), 16(2): e54484**. [doi:10.7759/cureus.54484](https://doi.org/10.7759/cureus.54484)
7. Willoughby, D., C. Florez, J. Davis, N. Keratsopoulos, M. Bisher, M. Parra, & **L. Taylor.** Decreased Neuromuscular Function and Muscle Quality Along with Increased Systemic Inflammation and Muscle Proteolysis Occurring in the Presence of Decreased Estradiol and Protein Intake in Early to Intermediate Post-Menopausal Women. **Nutrients (2024), 16(2), 197**. <https://doi.org/10.3390/nu16020197>
8. Siedler, M.R., C. Rodriguez, S.J. White, E. Tinoco, B. DeHaven, A. Brojanac, C. LaValle, J. Rasco, **L.W. Taylor** & G.M. Tinsley. Chronic Thermogenic Dietary Supplement Consumption: Effects on Body

Composition, Anthropometrics, and Metabolism. **Nutrients (2023), 15(22),**  
<https://doi.org/10.3390/nu15224806>.

9. Rodriguez, C., M.T. Stratton, P.S. Harty, M.R. Siedler, J.R. Boykin, J.J. Green, D.S. Keith, S.J. White, B. DeHaven, A. Brojanac, E. Tinoco, **L.W. Taylor**, & G.M. Tinsley. Effects of a novel ready-to-drink thermogenic beverage on resting energy expenditure, hemodynamic function, and subjective outcomes. **Journal of the International Society of Sports Nutrition (2023), 20:1, DOI: 10.1080/15502783.2023.2211958.**
10. Prather, J., C. Florez, A. Vargas, B. Soto, A. Harrison, D. Willoughby, G. Tinsley & **L. Taylor**. The effects of a thermogenic supplement on metabolic and hemodynamic variables and subjective mood states. **Journal of the International Society of Sports Nutrition (2023), 20:1, DOI: 10.1080/15502783.2023.2185538.**
11. Rodriguez, C., C.M. Florez, J. Prather, J. Zaragoza, M. Tinnin, K.L. Brennan, **L. Taylor**, & G.M. Tinsley. Influence of Upper and Lower Extremity Resistance Exercise on Segmental Body Composition and Body Fluid Estimates. **Journal of Strength and Conditioning Research (2023), May 1;37(5):1042-1051. doi: 10.1519/JSC.0000000000004367.**
12. Zaragoza, J.A., J. Prather, C. Harrison, J. Goonan, M. Tinnin, A.H. Secrest, **L. Taylor**, N. Elsworth, & V.J. Dalbo. 2019 International touch rugby world Cup: An analysis of movement demands by half and gender. **International Journal of Sports Science & Coaching, May 2022, doi:10.1177/17479541221100185.**
13. Boykin, J.R., G.M. Tinsley, C.M. Harrison, J. Prather, J. Zaragoza, M. Tinnin, S. Smith, C. Wilson & **L. Taylor**. Offseason Body Composition Changes Detected by Dual-Energy X-Ray Absorptiometry Versus Multifrequency Bioelectrical Impedance Analysis in Collegiate American Football Athletes. **Sports, 2021, 9, 112.**
14. Jäger, R., J. Zaragoza, M. Purpura, S. Iametti, M. Marengo, G.M. Tinsley, A.J. Anzalone, J.M. Oliver, W. Fiore, A. Biffi, S. Urbina, & **L. Taylor**. Probiotic administration increases amino acid absorption from plant protein – A placebo-controlled, randomized, double-blind, multicenter, crossover study. **Probiotics and Antimicrobial Proteins, 2020, 01: May.**
15. Kerkick, C.M., M.D. Roberts, B. Campbell, M. Galbreath, **L.W. Taylor**, C.D. Wilborn, A. Lee, J. Dove, J. Bunn, C.J. Rasmussen, & R.B. Kreider. Differential impact of calcium and vitamin D on body composition changes in post-menopausal women following a restricted energy diet and exercise program. **Nutrients, 2020, 12, 713.**
16. Zaragoza, J., G. Tinsley, S. Urbina, K. Villa, E. Santos, A. Juaneza, M. Tinnin, C. Davidson, S. Mitmesser, Z. Zhang & **L. Taylor**. Effects of Acute Caffeine, Theanine And Tyrosine Supplementation On Mental And Physical Performance In Athletes. **Journal of the International Society of Sports Nutrition (2019), volume 16: 56.**
17. Tinsley, G., S. Urbina, E. Santos, K. Villa, C. Foster, C. Wilborn, & **L. Taylor**. A Purported Detoxification Supplement Does Not Improve Body Composition, Waist Circumference, Blood Markers, or Gastrointestinal Symptoms in Healthy Adult Females. **Journal of Dietary Supplements (2019), 16:6, 649-658.**
18. Rodgers, J., S.L. Urbina, **L.W. Taylor**, C.D. Wilborn, M. Purpura, R. Jager & V. Juturu. Capsaicinoids Supplementation Decreases Percent Body Fat and Fat Mass: Adjustment Using Covariates in a Post Hoc Analysis. **BMC Obesity (2018) 5:22.**
19. Tinsley, G.M., S. Urbina, J. Mullins, J. Outlaw, S. Hayward, M. Stone, C. Foster, C. Wilborn, & **L. Taylor**. Influence Of A Thermogenic Dietary Supplement On Safety Markers, Body Composition, Energy Expenditure, Muscular Performance And Hormone Concentrations: A Randomized, Placebo-Controlled, Double-Blind Trial. **Journal of Sports Science and Medicine (2017) 16, 459-467.**
20. Kerkick, C.M., S. Arent, B.J. Schoenfeld, J.R. Stout, B. Campbell, C.D. Wilborn, **L. Taylor**, D. Kalman, A.E. Smith-Ryan, R.B. Kreider, D. Willoughby, P.J. Arciero, T.A. Van Dusseldorp, M.J. Ormsbee, R. Wildman, M. Greenwood, T.N. Ziegenfuss, A.A. Aragon, & J. Antonio. International Society of Sport Nutrition Position Stand: Nutrient Timing. **Journal of the International Society of Sports Nutrition, 14:33, August 2017.**
21. Jager, R., C.M. Kerkick, B. Campbell, P.J. Cribb, S.D. Wells, T.M. Skwait, M. Purpura, T.N. Ziegenfuss, A.A. Ferrando, S.M. Arent, A.E. Smith-Ryan, J.R. Stout, P.J. Arciero, M. J. Ormsbee,

- L. Taylor**, C.D. Wilborn, D. S. Kalman, R.B. Kreider, D.S. Willoughby, J.R. Hoffman, J.L. Kryzykowski, & J. Antonio. International Society of Sport Nutrition Position Stand: Protein and Exercise. **Journal of the International Society of Sports Nutrition**, **14:20**, June 2017.
22. Aragon, A.A., B.J. Schoenfeld, R. Wildman, S. Kleiner, T. VanDussledrop, **L. Taylor**, C.P. Earnest, P.J. Arciero, C.D. Wilborn, D.S. Kalman, J.R. Stout, D.S. Willoughby, B. Campbell, S.M. Arent, L. Bannock, A.E. Smith-Ryan, & J. Antonio. International Society of Sport Nutrition Position Stand: Diets and Body Composition. **Journal of the International Society of Sports Nutrition**, **14:16**, June 2017.
  23. Urbina, S., Michael D. Roberts, Wesley C. Kephart, Katelyn B. Villa, Emily N. Santos, Alyssa M. Olivencia, Haley M. Bennett, Marissa D. Lara, Clifffa A. Foster, Martin Purpura, Ralf Jäger, **Lem W. Taylor**, Colin D. Wilborn. Twelve Weeks of Capsaicinoid Supplementation Reduces Appetite and Self-Reported Caloric Intake. **Appetite**, **113 (2017)**, 264-273.
  24. **Taylor, L.W.**, C.D. Wilborn, M. Roberts, A. White, & K. Dugan. Eight weeks of pre- and post-exercise whey protein supplementation increases lean body mass and improves performance in Division III collegiate female basketball players. **Applied Physiology, Nutrition, and Metabolism**. **41: 1-6**, 2016.
  25. Hayward, S., C.D. Wilborn, **L.W. Taylor**, S.L. Urbina, J.J. Outlaw, C.A. Foster, & M.D. Roberts. Effects of a High Protein and Omega-3-Enriched Diet With or Without Creatine Supplementation on Markers of Soreness and Inflammation during 5 Consecutive Days of High Volume Resistance Exercise in Females. **Journal of Sports Science and Medicine**, **2016**, **15**, 704-714.
  26. **Taylor, L.W.**, C.D. Wilborn, P. Mumford, M. Roberts, S. Hayward, J. Mullins, & S. Urbina. Safety of Teacrine®, a Non-Habituating, Naturally-Occurring Purine Alkaloid Over Eight Weeks of Continuous Use. **Journal of International Society of Sports Nutrition**, **13:2**, 2016.
  27. Wilborn, C., J. Outlaw, P.W. Mumford, S.L. Urbina, S. Hayward, M.D. Roberts, **L.W. Taylor**, & C. Foster. A Pilot Study Examining the Effects of 8-Week Whey Protein versus Whey Protein Plus Creatine Supplementation on Body Composition and Performance Variables in Resistance-Trained Women. **Annals of Nutrition & Metabolism**, **2016 Nov 19; 69(3-4):190-199**.
  28. Outlaw, J., A. Smith-Ryan, A. Buckley, S. Urbina, S. Hayward, H. Wingfield, B. Campbell, C. Foster, **L. Taylor**, & C. Wilborn. The Effects of  $\beta$ -Alanine on Body Composition and Performance Measures in Collegiate Women. **Journal of Strength and Conditioning Research**, **2016 Sep; 30(9):2627-37**.
  29. Outlaw, J., C. Wilborn, A. Smith-Ryan, S. Hayward, S. Urbina, **L. Taylor**, & C. Foster. Effects of Pre- and Post-Workout Protein-Carbohydrate Supplement in Trained Crossfit Individuals. **Springer Plus**, **3:369**, 2014.
  30. Outlaw, J., C.D. Wilborn, A. Smith-Ryan, S. Hayward, S. Urbina, **L. Taylor**, & C. Foster. Acute Effects of a Commercially-Available Pre-Workout Supplement on Markers of Training: A Double-Blind Study. **Journal of the International Society of Sports Nutrition**, **11:40**, August 2014.
  31. Outlaw, J., C. Wilborn, A. Smith, S. Urbina, S. Hayward, C. Foster, S. Wells, R. Wildman, & **L. Taylor**. Effects of Ingestion of a Commercially Available Thermogenic Dietary Supplement on Resting Energy Expenditure, Mood State and Cardiovascular Measures. **Journal of the International Society of Sports Nutrition**, **10:25**, April 2013.
  32. Wilson, J.M., P.J. Fitschen, B. Campbell, G.J. Wilson, N. Zanchi, **L. Taylor**, C. Wilborn, D. Kalman, J. Stout, J. Hoffman, T. Ziegenfuss, H.L. Lopez, R. Kreider, A. Smith-Ryan, & J. Antonio. International Society of Sport Nutrition Position Stand: HMB. **Journal of the International Society of Sports Nutrition**, **10:6**, 2013.
  33. Campbell, B., C. Wilborn, P. La Bounty, **L. Taylor**, M.T. Nelson, M. Greenwood, T.N. Ziegenfuss, H.L. Lopez, J.R. Hoffman, J.R. Stout, S. Schmitz, R. Collins, H. Schwartz, D.S. Kalman, J. Antonio, & R.B. Kreider. International Society of Sport Nutrition Position Stand: Energy Drinks. **Journal of the International Society of Sports Nutrition**, **10(1):1**, January 2013.
  34. Wilborn, C., **L. Taylor**, L. Williams, P. Cribb, C.A. Foster, B. Campbell, M. McAdams, & K. Dugan. Effects of Pre- and Post-Exercise Whey vs. Casein Protein Consumption on Body Composition and Performance Measures in Collegiate Female Athletes. **Journal of Sports Science and Medicine**, **12(1)**, 74-79, March 2013.
  35. Dugan, K., B. Campbell, F. Dufour, S. Roman, C. Woodall, M. McAdams, A. White, **L.W. Taylor**, &



- C.D. Wilborn. Acute Glycemic and Blood Lipid Response to the Ingestions of a Candy Bar-Like Protein Supplement Compared to Its Candy Bar Counterpart. **Applied Physiology, Nutrition, and Metabolism**, 2013 May; **38(5): 484-489**.
36. **Taylor, L.W.**, C.D. Wilborn, R. Kreider, & D.S. Willoughby. Effects of Resistance Exercise Intensity on ERK 1/2 MAPK Activation in Males. **Journal of Strength and Conditioning Research**, 2012 **26(3):599-607**.
  37. **Taylor, L.W.**, C. Poole, E. Pena, M. Lewing, R. Kreider, C. Foster & C.D. Wilborn,. Effects of Combined Creatine Plus Fenugreek Extract Vs. Creatine Plus Carbohydrate Supplementation on Resistance Training Adaptations. **Journal of Sport Science and Medicine**, 2011, **10: 254-260**.
  38. Kreider, R.B., C. Rasmussen, C.M. Kerksick, C. Wilborn, **L. Taylor IV**, B. Campbell, T. Magrans-Courtney, D. Fogt, M. Ferreira, R. Li, M. Galbreath, M. Iosia, M. Cooke, M. Serra, J. Gutierrez, M. Byrd, J.Y. Kresta, S. Simbo, J. Oliver, & M. Greenwood. A Carbohydrate-Restricted Diet During Resistance Training Promotes More Favorable Changes in Body Composition and Markers of Health in Obese Women With and Without Insulin Resistance. **The Physician and Sports Medicine**, **39:2, May 2011**.
  39. Kerksick, C., J. Wismann-Bunn, D. Fogt, A. Thomas, **L. Taylor**, B. Campbell, C. Wilborn, T. Harvey, M. Roberts, P. La Bounty, M. Galbreath, B. Marcello, C. Rasmussen, & R. Kreider. Changes in Weight Loss, Body Composition and Cardiovascular Disease Risk After Altering Macronutrient Distributions During a Regular Exercise Program in Obese Women. **Nutrition Journal**, 2010, **9:59**.
  40. Poole, C., B. Bushey, C. Foster, B. Campbell, D. Willoughby, R. Kreider, **L. Taylor**, & C. Wilborn. The Effects of a Commercially Available Botanical Supplement on Strength, Body Composition, Power Output, and Hormonal Profiles in Resistance-Trained Males. **Journal of the International Society of Sports Nutrition**, 2010, **7(34)**.
  41. Wilborn, C., **L. Taylor**, C. Poole, C. Foster, D. Willoughby, & R. Kreider. Effects of a Purported Aromatase & 5  $\alpha$ -Reductase Inhibitor on Hormone Profiles in College-Age Men. **International Journal of Sport Nutrition and Exercise Metabolism**, 2010, **20(6):457-65**.
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#### **Published Research Abstracts**

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139. Thomas, A., C. Rasmussen, C. Kerksick, T. Magrans, B. Campbell, J. Baer, B. Slonaker, E. Pfau, M. Grimstvedt, C. Wilborn, B. Marcello, **L. Taylor**, C. Mulligan, D. Rohle, A. Vacanti, L. Autrey, S. Ounpraseuth, P. Casey, R. Wilson, M. Greenwood, R. Kreider, C. Earnest (sponsor). Effects of the Curves® Fitness & Weight Loss Program II: Resting Energy Expenditure. **FASEB Journal 18: LB 278, 2004.**
140. Rasmussen, C., C. Kerksick, T. Magrans, B. Campbell, J. Baer, A. Thomas, B. Slonaker, E. Pfau, M. Grimstvedt, C. Wilborn, B. Marcello, **L. Taylor**, C. Mulligan, D. Rohle, A. Vacanti, L. Autrey, S. Ounpraseuth, P. Casey, R. Wilson, M. Greenwood, R. Kreider, C. Earnest (sponsor). Effects of the Curves® Fitness & Weight Loss Program III: Training Adaptations. **FASEB Journal 18: LB 279, 2004.**
141. Slonaker, B., C. Rasmussen, C. Kerksick, T. Magrans, B. Campbell, J. Baer, A. Thomas, E. Pfau, M. Grimstvedt, C. Wilborn, B. Marcello, **L. Taylor**, C. Mulligan, D. Rohle, A. Vacanti, L. Autrey, S. Ounpraseuth, P. Casey, R. Wilson, M. Greenwood, R. Kreider, C. Earnest (sponsor). Effects of the Curves® Fitness & Weight Loss Program IV: Health Markers. **FASEB Journal 18: LB 280, 2004.**
142. Bowden, R., B. Lanning, C. Rasmussen, C. Kerksick, T. Magrans, B. Campbell, J. Baer, A. Thomas, B.

- Slonaker, E. Pfau, M. Grimstedt, C. Wilborn, B. Marcello, D. Fogt, **L. Taylor**, C. Mulligan, D. Rohle, A. Vacanti, S. Ounpraseuth, P. Casey, R. Wilson, M. Greenwood, R. Kreider, C. Earnest (sponsor). Effects of the Curves® Fitness & Weight Loss Program VII: Quality of Life. **FASEB Journal** **18: LB 283, 2004.**
143. **Taylor, L.**, C. Mulligan, D. Rohle, A. Vacanti, D. Fogt, C. Rasmussen, C. Kerksick, B. Campbell, J. Baer, B. Slonaker, C. Wilborn, A. Thomas, B. Marcello, E. Pfau, M. Grimstedt, J. Opusunju, S. Ounpraseuth, P. Casey, M. Greenwood, R. Wilson, & R. Kreider. Analysis of the safety of the Curves™ fitness and weight loss program high protein diets. **Sports Nutrition Review Journal**. **1(1):S8-9, 2004.**
  144. Kerksick, C, B. Campbell, L. Taylor, C. Wilborn, C. Rasmussen, T. Vacanti, M. Greenwood, R. Bowden, R. Wilson, & R. Kreider. Pharmacokinetic profile of time released and non-time released oral arginine. **Sports Nutrition Review Journal**. **1(1):S9-10, 2004.**
  145. Campbell, B, J. Baer, M. Roberts, T. Vacanti, B. Marcello, A. Thomas, C. Kerksick, C. Wilborn, D. Rohle, **L. Taylor**, C. Rasmussen, M. Greenwood, R. Wilson, & R. Kreider. Effects of arginine alpha-ketoglutarate supplementation on body composition and training adaptations. **Sports Nutrition Review Journal**. **1(1):S10, 2004.**
  146. Vacanti, T., B. Campbell, J. Baer, M. Roberts, T. Vacanti, B. Marcello, A. Thomas, C. Kerksick, C. Wilborn, D. Rohle, **L. Taylor**, C. Rasmussen, M. Greenwood, R. Wilson, & R. Kreider. Effects of arginine alpha-ketoglutarate supplementation on markers of catabolism and health status. **Sports Nutrition Review Journal**. **1(1):S10-11, 2004.**
  147. Nassar, E., R.G. Bowden, B. Campbell, T. Vacanti, Kerksick C, J. Baer, M. Roberts, B. Marcello, A. Thomas, **L. Taylor**, C. Wilborn, C. Rasmussen, S. Ounpraseuth, P. Casey, M. Greenwood, R. Wilson, & R. Kreider. Effects of arginine alpha-ketoglutarate supplementation on quality of life. **Sports Nutrition Review Journal**. **1(1):S12-13, 2004.**
  148. Wilborn, C., J. Baer, B. Campbell, A. Thomas, B. Slonaker, T. Vacanti, B. Marcello, C. Kerksick, C. Rasmussen, **L. Taylor**, C. Mulligan, D. Rohle, D. Fogt, R. Wilson, M. Greenwood, & R. Kreider. Effects of ZMA supplementation on the relationship of zinc and magnesium to body composition, strength, sprint performance, and metabolic and hormonal profiles. **Sports Nutrition Review Journal**. **1(1):S13-14, 2004.**
  149. Willoughby, D.S., M. Brown, & **L. Taylor**. Effects of repeated bouts of eccentric exercise on HSP-72 expression and the Ubiquitin Proteolytic Pathway. **FASEB Journal** **17: LB 317, 2003.**

## PRESENTATIONS

### Abstracts Presented at Regional Journals/Conference Proceedings

1. Widener, J., E. Hardy, M. Merritt, N. Murphy, J. Scobercea, J. Wright, N. Keratsopoulos, C.M. Florez, K. Brennan, G. Tinsley, J. Kelly, M. Parra, & L.W. Taylor. Effects of Acute Lower Body Resistance Exercise on Body Composition Parameters Assessed by Bioelectrical Impedance Analysis. **Texas Chapter of American College of Sports Medicine**. Waco, TX. 2025.
2. Rollin, M., E. Hardy, M. Merritt, N. Murphy, J. Scobercea, J. Wright, N. Keratsopoulos, C.M. Florez, K. Brennan, G. Tinsley, J. Kelly, M. Parra, & L.W. Taylor. Effects of Acute Lower Body Resistance Exercise on Body Composition Parameters Assessed by DXA. **Texas Chapter of American College of Sports Medicine**. Waco, TX. 2025.
3. Norgan Radler, C.R., C.M. Florez, C. Wilborn, **L. Taylor**, & A.H. Secrest. Protective Factors Of Low Bone Mineral Density: An Examination Between Two Samples Of Premenopausal Women. **Texas Chapter of American College of Sports Medicine**. Waco, TX. 2024.
4. Keratsopoulos, N., J. Davis, A. Faterkowski, K. Kolodziejczyk, R. Mills, J. Widener, **L. Taylor**, & M. Parra. Modified Reactive Strength Index in DIII Acrobatics and Tumbling Athletes: A Retrospective Pilot Study. **Texas Chapter of American College of Sports Medicine**. Waco, TX. 2024.
5. Kolodziejczyk, K., J. Davis, A. Faterkowski, N. Keratsopoulos, R. Mills, J. Widener, **L. Taylor**, & M. Parra. Observation of Peak Propulsive Force, Braking Force, and Loading Force in Acrobatics and

- Tumbling Athletes During a Competitive Season: Pilot. **Texas Chapter of American College of Sports Medicine**. Waco, TX. 2024.
6. Rollin, M., K. Kolodziejczyk, R. Mills, A. Faterkowski, J. Davis, N. Keratsopoulos, R. Tandoh, **L. Taylor**, & M. Parra. Total Lean Body Mass and Lower Body Mass Correlation with Vertical Jump in Untrained Women Basketball Players after 8 Weeks of Resistance Training. **Texas Chapter of American College of Sports Medicine**. Waco, TX. 2024.
  7. Florez, C., G. Tinsley, A.H. Secrest, C. Wilborn, & **L. Taylor**. Agreement Between Body Mass Index and Percent Body Fat in Resistance Trained Men and Women. **Texas Chapter of American College of Sports Medicine**. Waco, TX. 2023. **Abstract Finalist in M.S. Category**
  8. Florez, C., G. Tinsley, J. Prather, J. Zaragoza, C. Teague, K. Glenn, J. Kelly, M. Bourque, M. Hockett, A. Gutierrez, M. Tinnin, K. Brennan, & **L. Taylor**. Acute Resistance Exercise Influences Bioelectrical Impedance Analysis Segmental Fat Mass Estimates. **Texas Chapter of American College of Sports Medicine**. Waco, TX. 2022. **Awarded 2<sup>nd</sup> Place Poster Presentation in M.S. Category.**
  9. Prather, J., C. Harrison, A. Vargas, B. Soto, A. Harrison, M. Tinnin, G. Tinsley, D. Willoughby, & **L. Taylor**. The Effects of a Thermogenic Supplement on Metabolic and Hemodynamic Variables and Subjective Mood States. **Texas Chapter of American College of Sports Medicine**. Waco, TX. 2022. **Abstract Finalist in M.S. Category**
  10. Rodriguez, C., C. Harrison, J. Zaragoza, J. Prather, C. Teague, K. Glen, J. Kelly, M. Bourque, M. Hockett, A. Gutierrez, M. Tinnin, K. Brennan, **L. Taylor**, & G. Tinsley. Acute Resistance Exercise Influences Bioelectrical Impedance Analysis Segmental Fat Mass Estimates. **Texas Chapter of American College of Sports Medicine**. Waco, TX. 2022.
  11. Boykin, J., D. Keith, C. Harrison, J. Zaragoza, J. Prather, M. Tinnin, **L. Taylor**, & G. Tinsley. Associations of Changes in Body Composition and Athletic Performance in Collegiate American Football Players. **Texas Chapter of American College of Sports Medicine**. Waco, TX. 2022.
  12. Keith, D., J. Boykin, C. Harrison, J. Zaragoza, J. Prather, M. Tinnin, **L. Taylor**, & G. Tinsley. Relationship Between Changes in Upper Body Fat-Free Mass and Bench Press Performance in American Football Players. **Texas Chapter of American College of Sports Medicine**. Waco, TX. 2022.
  13. Prather, J.M., J.A. Zaragoza, C.M. Harrison, J. Goonan, M. Tinnin, A. Secrest, N. Elsworth, V.J. Dalbo, & **L. Taylor**. Within Game and Between Gender Comparisons of Match Demands in Men's and Women's International Touch Rugby World Cup. **Texas Chapter of American College of Sports Medicine**. Virtual poster presentation via Symposium, 2021.
  14. Harrison, C., J. Boykin, G.M. Tinsley, J. Prather, J. Zaragoza, M. Tinnin, S. Smith, C. Wilson, & **L. Taylor**. Performance and Body Composition Changes Following an Offseason Training Period in DIII Collegiate American Football Athletes. **Texas Chapter of American College of Sports Medicine**. Virtual poster presentation via Symposium, 2021.
  15. Tinnin, M., H. John, J. Prather, S. Smith, C. Harrison, R. Robinson, H. Taylor, S. Alvarez, S. Urbina, J. Zaragoza, A. Secrest, & **L. Taylor**. Discovering the Accuracy of Popular Mobile Applications in Predicting Resting Energy Expenditure in Humans. **Texas Chapter of American College of Sports Medicine**. Virtual poster presentation via Symposium, 2021.
  16. Boykin, J.R., G.M. Tinsley, C.M. Harrison, J. Prather, J. Zaragoza, M. Tinnin, S. Smith, C. Wilson, & **L. Taylor**. Offseason Body Composition Changes Detected by Dual X-Ray Absorptiometry Versus Multifrequency Bioelectrical Impedance Analysis in Collegiate American Football Athletes.
  17. Birdsell, D., G.M. Tinsley, J. Zaragoza, M. Tinnin, J. Prather, C. Harrison, S. Smith, C. Lockwood, & **L. Taylor**. Comparison of Bioimpedance analysis and Dual Energy X-Ray Absorptiometry in Division III Football Athletes. **Texas Chapter of American College of Sports Medicine**. Waco, TX. 2020.
  18. Harrison, C., J. Zaragoza, S. Cunningham, J. Prather, C. Wilson, S. Smith, C. Schiller, D. Birdsell, & **L. Taylor**. Lower Limb Muscle Activity and Recruitment Patterns Measured via Electromyography in Back Squat Variations. **Texas Chapter of American College of Sports Medicine**. Waco, TX. 2020.
  19. Zaragoza, J., J. Prather, S. Urbina, B. Brabham, C. Rex, V. Kreipke & **L. Taylor**. Twelve Weeks of Nitrate, Beta-alanine or Combined Treatment in NCAA Division III Male Soccer Players. **Texas**

- Chapter of American College of Sports Medicine.** Waco, TX. 2020.
20. Wong, R., J. Barker, T. Berreth, R. Fox, M. Maldonado, J. Zaragoza, M. Tinnin, G.M. Tinsley, **L. Taylor**, & K. Brennan. The Effects of Acute Resistance Exercise on Bioelectrical Impedance Analysis Measures of Body Composition. **Texas Chapter of American College of Sports Medicine.** Waco, TX. 2020.
  21. Barker, J., R. Wong, T. Berreth, R. Fox, M. Maldonado, J. Zaragoza, M. Tinnin, G.M. Tinsley, **L. Taylor**, & K. Brennan. The Effects of Acute Resistance Exercise on Dual-Energy X-Ray Absorptiometry Measure of Body Composition. **Texas Chapter of American College of Sports Medicine.** Waco, TX. 2020.
  22. Wilson, C., J. Prather, J. Zaragoza, M. Tinnin, A. Secrest, J. Goonan & **L. Taylor**. Differences in Impact and Load During Collegiate Rugby 7s. **Texas Chapter of American College of Sports Medicine.** Waco, TX. 2020.
  23. Prather, J., J. Zaragoza, M. Tinnin, A. Secrest, J. Goonan & **L. Taylor**. Positional Differences in Running Distances and Speed Among Collegiate Rugby 7s Players. **Texas Chapter of American College of Sports Medicine.** Waco, TX. 2020.
  24. Zaragoza, J., A. Kreutzer, J.M. Oliver, A.J. Anzalone, T. Como, D. Julovich, J. Hall, S. O'Bryant, S.L. Urbina & **L.W. Taylor**. Fluctuations in Blood Biomarkers of Head Trauma in NCAA Men's Soccer Athletes over the Course of a Season. **Texas Chapter of American College of Sports Medicine.** Ft. Worth, TX. 2019.
  25. Olive, V., J. Harrison, J. Jakovljevic, S. Truelove, D. Willoughby, S. Urbina, **L. Taylor**, & C. Wilborn. The Effects of Blood Flow Restriction Training on Strength, Body Composition, and Hormone Response in Resistance Trained Collegiate Females. **Texas Chapter of American College of Sports Medicine.** Ft. Worth, TX. 2019.
  26. White, A., M. McAdams, C. Woodall, K. Dugan, S. Roman, C.A. Foster, C.D. Wilborn & **L.W. Taylor**. Effects of Pre- and Post-Exercise Protein vs. Carbohydrate Ingestion on Training Adaptations in Collegiate Female Athletes. **Texas Chapter of American College of Sports Medicine.** Austin, TX. 2011.
  27. Dugan, K., M. McAdams, M. Lewing, C.A. Foster, **L.W. Taylor**, & C.D. Wilborn. The Effects of Pre- and Post-Exercise Whey vs. Casein Protein Consumption on Body Composition and Performance Measures in Collegiate Female Athletes. **Texas Chapter of American College of Sports Medicine.** Houston, TX. 2010.
  28. Lewing, M., L. Taylor, & C.D. Wilborn. A Comparison of Adaptations via Either a Linear Periodization or an Undulating Periodization Model of Weight Training. **Texas Chapter of American College of Sports Medicine.** Houston, TX. 2010.
  29. Jones, T., C. Wilborn, **L. Taylor**, C. Foster, T. Swift, C. Burken, M. Florez, C. Poole, B. Bushey, R. Kreider, & D. Willoughby. Effects of Fenugreek, Cinnamon, and Curcumin on Post Workout Inflammatory Response. **Texas Chapter of American College of Sports Medicine.** Tyler, TX. 2009.
  30. Dufour, F., C. Poole, A. Crawford, C. Foster, **L. Taylor**, & C. Wilborn. The Impact of Differing Types of Physical Activity on Weight Loss, Energy Expenditure, and the Hormones Insulin, Leptin, and Cortisol. **Texas Chapter of American College of Sports Medicine.** Tyler, TX. 2009.
  31. Poole, C., S. Bott, B. Bushey, A. Crawford, C. Foster, L. Taylor, & C. Wilborn. The Effects of an Energy Increasing Supplement on Markers of V02 max, Body Composition, and Anaerobic Power. **Texas Chapter of American College of Sports Medicine.** Tyler, TX. 2009.
  32. Constancio, E., C. Wilborn, **L. Taylor**, C. Foster, B. Bushey, C. Poole, E. Pena, T. Jones, & R. Kreider. Effects of a Proprietary Fenugreek Extract on Strength and Body Composition. **Texas Chapter of American College of Sports Medicine.** Tyler, TX. 2009.
  33. Bushey, B., **L. Taylor**, C. Wilborn, C. Poole, C. Foster, B. Campbell, R. Kreider, & D. Willoughby. Fenugreek Extract Supplementation has No Effect on the Hormonal Profile of Resistance-Trained Males. **Texas Chapter of American College of Sports Medicine.** Tyler, TX. 2009.
  34. Wilborn, C.W., **L.W. Taylor**, B. Campbell, & D.S. Willoughby. Effects of 8 Weeks of Supplementation of the Alleged Aromatase Inhibitor Novedex XT™ on Serum Steroid Hormone Profiles and Clinical Safety Markers in Resistance-Trained Males. **Texas Chapter of American College of Sports Medicine.** Denton, TX. 2006.



35. Roberts, M., **L.W. Taylor**, M. Taylor, & D.S. Willoughby. Effects of eccentric versus concentric exercise bouts on serum prostaglandin F2 $\alpha$  levels. **Texas Chapter of American College of Sports Medicine**. Denton, TX. 2006.
36. Nassar, E., C. Mulligan, **L.W. Taylor**, C. Kerkick, M. Galbreath, & D.S. Willoughby. Effects of Prophylactic N-Acetyl-5-methoxytryptamine (Melatonin) Supplementation and Resistance Exercise on Serum Growth Hormone Levels and the Hypothalamus-Pituitary-Adrenal Axis in Young Males and Females. **Texas Chapter of American College of Sports Medicine**. Denton, TX. 2006.
37. Kerkick, C., M. Roberts, B. Campbell, E. Nassar, M. Iosia, C. Wilborn, **L. Taylor**, & D. Willoughby. Changes in Whole Blood Cell Hematological Markers after 14-day Prophylactic Period of Antioxidant Supplementation followed by eccentric exercise. **Texas Chapter of American College of Sports Medicine**. Denton, TX. 2006.
38. **Taylor, L.** & D.S. Willoughby, FACSM. Effects of Hind limb-Unweighting on Myostatin mRNA Expression in Fast and Slow-Twitch Rodent Muscles. **Texas Chapter of American College of Sports Medicine**. Dallas, TX. 2005.
39. Wilborn, C., **L. Taylor**, C. Kerkick, & D.S. Willoughby, FACSM. Effects of Heavy Resistance Training and Proprietary Whey+Casein Protein Supplementation on Muscle Strength and Mass and MHC Isoform mRNA Expression. **Texas Chapter of American College of Sports Medicine**. Dallas, TX. 2005.
40. Roberts, M., **L. Taylor**, B. Campbell, C. Mulligan, D. Rohle, C. Kerkick, A. Vacanti, D. Fogt, C. Rasmussen, A. Thomas, C. Wilborn, B. Marcello, R. Wilson, M. Greenwood, C. Earnest, R. Kreider, D. Willoughby FACSM. Relationships Between Fasting Serum Triglycerides and Leptin, Fat mass, and REE in Sedentary, Overweight Females during 14-Week Diet and Exercise Program. **Texas Chapter of American College of Sports Medicine**. Dallas, TX. 2005.
41. Harvey, A.E., A.M. Watkins, **L.W. Taylor**, & D.S. Willoughby. Effects of Heavy Resistance Exercise on Skeletal Muscle IL-6 Expression and Serum IL-10. **Texas Chapter of American College of Sports Medicine**. Tyler, TX. 2004.
42. **Taylor, L.W.** & D.S. Willoughby FACSM. Effects of Three Sequential Bouts of Heavy Resistance Exercise on HSP-72 and Ubiquitin Protein Expression in Trained vs. Untrained Males. **Texas Chapter of American College of Sports Medicine**. Houston, TX. 2003.
43. Rowe, J.R., **L.W. Taylor**, S.M. Sultemeier, J.D. Smith, and J.B. Mitchell. The Effect of Elastic Reinforced Tights on Physiological Responses During Prolonged Running. **Texas Chapter of American College of Sports Medicine**. Houston, TX. 2003.
44. Watkins, A.M., A.E. Harvey, **L.W. Taylor**, J.B. Mitchell, and D.S. Willoughby. Pilot Study: Effect of Repeated Bouts of Resistance Exercise on Circulating Leukocytes in Trained and Untrained Males. **Texas Chapter of American College of Sports Medicine**. Houston, TX. 2003.
45. Taylor, M.A., **L.W. Taylor**, & D.S. Willoughby FACSM. Effects of Repeated Bouts of Eccentric Exercise on HSP-72 and Ubiquitin Protein and mRNA Expression. **Texas Chapter of American College of Sports Medicine**. Georgetown, TX. 2002. 1<sup>st</sup> Place for Research Poster Presentations (Master's Category).

#### **Posters Presented at Referred National/International Conference Proceedings**

1. Norgan Radler, C.R., C.M. Florez, C. Wilborn, **L. Taylor**, & A.H. Secrest. Physical Activity As A Protective Factor For Low Bone Mineral Density: An Examination Among Premenopausal Women. **Annual Meeting of the American Public Health Association**. Minneapolis, MN. 2024.
2. Kolodziejczyk, K., J. Davis, A. Faterkowski, N. Keratsopoulos, R. Mills, M. Rollin, J. Widener, C. M. Florez, **L. Taylor**, & M. Parra. Peak EMG Activation Is Not Augmented In The Gluteus Maximus And Rectus Femoris Muscles With Variations In Back Squat Exercises. **National Strength and Conditioning Association National Conference**. Baltimore, MD. 2024.
3. Keratsopoulos, N., J. Kelly, I. Ekery, D. Willoughby, **L. Taylor**, & M. Parra. The Impact Of Throwing Volume On Shoulder Internal And External Rotation Force In Division III Pitchers During Spring Training. **National Strength and Conditioning Association National Conference**. Baltimore, MD. 2024.

4. Kelly, J., N. Keratsopoulos, A. Faterkowski, K. Kolodziejczyk, M. Rollin, R. Mills, M. Parra, A. Secrest, R. Jäger, M. Purpua, G.M. Tinsley, & **L.W. Taylor**. Comparison Of Glycoprotein Matrix-Bound Iron, Ferrous Bisglycinate Chelate, And Ferrous Fumarate Absorption. **International Society of Sports Nutrition National Conference**. Bonita Springs, FL. 2024.
5. Florez, C.M., J. Prather, A. Ross, A. Vargas, J. Cabezas, A. Harrison, B. Soto, G. Tinsley, & **L. Taylor**. Agreement of Body Composition Estimates in Collegiate Baseball Players Measured by DSM-BIA and DXA Following A Resistance Training Intervention. **National Strength and Conditioning Association National Conference**. Las Vegas, NV. 2023. **Poster Finalist in M.S. Category.**
6. Prather, J.M., C.M. Florez, A. Vargas, B. Soto, A. Ross, A. Harrison, A. Secrest, D. Willoughby, S. Kutter, & **L.W. Taylor**. The Influence Of CYP1A2 Genotypes On The Impact Of Caffeine Ingestion On Subjective Outcomes In Females. **International Society of Sports Nutrition National Conference**. Ft. Lauderdale, FL. 2023. **Awarded 1<sup>st</sup> Place Poster Presentation in PhD/MD Category.**
7. Florez, C.M., D. Miller, M. Parra, J. Davis, J. Prather, A. Harrison, A. Vargas, A. Ross, B. Soto, R. Jager, M. Purpura, G. Tinsley, & **L. Taylor**. Comparative Differences of Amino Acid Appearance with and Without Probiotic Ingestion. **International Society of Sports Nutrition National Conference**. Ft. Lauderdale, FL. 2023. **Awarded 3<sup>rd</sup> Place Poster Presentation in M.S. Category.**
8. Davis, J., C.M. Florez, J. Prather, J. Zaragoza, M. Parra, G. Tinsley, C.M. Lockwood, & **L. Taylor**. Effects Of The Probiotic Lactobacillus Acidophilus On Acute, Subacute, And Sustained Lactose Tolerance In Healthy Adults. **International Society of Sports Nutrition National Conference**. Ft. Lauderdale, FL. 2023.
9. Florez, C.M., G. Tinsley, A. Hollub-Secrest, C. Wilborn, & **L. Taylor**. Agreement Between Body Mass Index and Percent Body Fat In Resistance Trained Men And Women. **Annual Meeting of the American College of Sports Medicine**. Denver, CO. 2023.
10. Prather, J.M., C.M. Florez, A. Ross, A. Vargas, J. Cabezas, A. Harrison, B. Soto, M. Tinnin, **L. Taylor**, & M.E. Parra. Strength And Body Composition Changes In NCAA Division III Baseball Players During A Pre-Season Training Period. **National Strength and Conditioning Association National Conference**. New Orleans, LA. 2022.
11. Parra, M., C.M. Florez, J.M. Prather, A. Vargas, B. Soto, A. Harrison, D. Miller, M. Tinnin, G.M. Tinsley, & **L.W. Taylor**. Changes in Metabolic Rate, Vital signs and Mood Responses Following Ingestion of a Commercially Available Thermogenic Supplement. **International Society of Sports Nutrition National Conference**. Ft. Lauderdale, FL. 2022.
12. Miller, D., J.M. Prather, C.M. Florez, A. Vargas, B. Soto, A. Harrison, M. Tinnin, G.M. Tinsley, & **L.W. Taylor**. Effects of a Thermogenic Supplement on Metabolic, Hemodynamics, and Subjective Mood State Outcomes in Caffeine-habituated Young Males. **International Society of Sports Nutrition National Conference**. Ft. Lauderdale, FL. 2022.
13. Florez, C.M., J.M. Prather, A. Vargas, B. Soto, A. Harrison, D. Miller, M. Tinnin, G.M. Tinsley, & **L.W. Taylor**. Influence of a Commercially Available Thermogenic Dietary Supplement on Basal Metabolic Rate, Hemodynamics, and Mood Responses in Caffeine-habituated Young Females. **International Society of Sports Nutrition National Conference**. Ft. Lauderdale, FL. 2022.
14. Prather, J.M., C.M. Florez, A. Vargas, B. Soto, A. Ross, A. Harrison, D. Willoughby, **L.W. Taylor**, & S. Kutter. The Influence of CYP1A2 Genotypes on the Ergogenic Effects of Caffeine in Resistance Trained Females. **International Society of Sports Nutrition National Conference**. Ft. Lauderdale, FL. 2022.
15. Harrison, C.M., G. Tinsley, J. Prather, J. Zaragoza, C. Teague, K. Glenn, J. Kelly, M. Bourque, M. Hockett, A. Gutierrez, M. Tinnin, K. Brennan, & **L. Taylor**. Body Fluid Estimation Via Segmental Multi-Frequency Bioelectrical Impedance Analysis Following Acute Resistance Exercise. **Annual Meeting of the American College of Sports Medicine**. San Diego, CA. 2022.
16. Prather, J., C. Harrison, A. Vargas, B. Soto, A. Harrison, M. Tinnin, G. Tinsley, D. Willoughby, & **L. Taylor**. The Effects of a Thermogenic Supplement on Metabolic and Hemodynamic Variables and Subjective Mood States. **Annual Meeting of the American College of Sports Medicine**. San Diego, CA. 2022.
17. Prather, J.M., J.A. Zaragoza, C.M. Harrison, & **L. Taylor**. Positional Differences In Performance Among

- Major League Soccer Combine Participants. **National Strength and Conditioning Association National Conference.** Orlando, FL. 2021.
18. Zaragoza, J., C. Harrison, J. Prather, C. Wilson, M. Tinnin, C. Wilborn, A. Smith-Ryan, & **L. Taylor.** Pre- to Post-Season Characterization of Body Composition And Injury Prevalence Of NCAA Division III Soccer And Volleyball Athletes. **National Strength and Conditioning Association National Conference.** Las Vegas, NV. 2020 (*meeting canceled due to 2020 pandemic*).
  19. Zaragoza, J., V. Dalbo, N. Elsworthy, A. Scanlan, J. Prather, C. Wilson, C. Harrison, M. Tinnin, J. Goonan, & **L. Taylor.** Movement Demands of International Touch Rugby World Cup Players. **National Strength and Conditioning Association National Conference.** Las Vegas, NV. 2020 (*meeting canceled due to 2020 pandemic*).
  20. Prather, J., V. Dalbo, N. Elsworthy, A. Scanlan, J. Zaragoza, C. Wilson, C. Harrison, M. Tinnin, J. Goonan, & **L. Taylor.** Quantifying High -Intensity External Demands In International Touch Rugby World Cup Players. **National Strength and Conditioning Association National Conference.** Las Vegas, NV. 2020 (*meeting canceled due to 2020 pandemic*).
  21. Brennen, K., R. Wong, J. Barker, T. Berreth, R. Fox, M. Maldonado, J. Zaragoza, M. Tinnin, G.M. Tinsley, & **L. Taylor.** The Effects of Acute Resistance Exercise on Bioelectrical Impedance Analysis Measures of Segmental Body Composition Analysis. **National Strength and Conditioning Association National Conference.** Las Vegas, NV. 2020 (*meeting canceled due to 2020 pandemic*).
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  24. Zaragoza, J., J. Prather, S. Urbina, B. Brabham, C. Rex, V. Kreipke & **L. Taylor.** Twelve Weeks of Nitrate, Beta-alanine or Combined Treatment in NCAA Division III Male Soccer Players. **Annual Meeting of the American College of Sports Medicine.** San Francisco, CA. 2020 (*meeting canceled due to 2020 pandemic*).
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  27. Zaragoza, J., S. Urbina, K. Villa, G. Tinsley, & **L. Taylor.** Seasonal Changes in NCAA Men's Soccer Athletes' Body Composition Over the Course of a Season. **International Human Performance Summit.** San Antonio, TX. 2019.
  28. Zaragoza, J.A., A. Kreutzer, J. Oliver, A. Anzalone, T. Conger, D.A. Julovich, J. Hall, S. O'Bryant, S. Urbina, & **L. Taylor.** Fluctuations in Inflammatory Markers in NCAA Men's Soccer Athletes Over the Course of a Season. **National Strength and Conditioning Association National Conference.** Washington D.C. 2019.
  29. Kreutzer, A., J.A. Zaragoza, J. Oliver, A. Anzalone, J. Conger, D.A. Julovich, J. Hall, S. O'Bryant, S. Urbina, & **L. Taylor.** Fluctuations in Blood Biomarkers of Head Trauma in NCAA Men's Soccer Athletes over the Course of a Season. **Annual Meeting of the American College of Sports Medicine.** Orlando, FL. 2019.
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34. Urbina, S., E. Santos, K. Villa, A. Olivencia, H. Bennett, M. Lara, C. Foster, C. Wilborn, & L. Taylor. Effects of 30 Days of Cleanse™ Supplementation on Measure of Body Composition, Waist Circumference, and Markers of Gastrointestinal Distress in Females. **International Society of Sports Nutrition National Conference.** Clearwater, FL. 2016.
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  101. Campbell, B, C. Kerksick, C. Wilborn, B. Marcello, R. Lutz, P. La Bounty, T. Harvey, **L. Taylor**, M. Galbreath, C. Rasmussen, M. Greenwood, & R. Kreider. Assessment of a Learning Curve for the Wingate Anaerobic Test. **Annual National Strength and Conditioning Association Meeting.** Las Vegas, NV. 2005.

102. Rasmussen, C., R. Kreider, FACSM, C. Kerksick, B. Campbell, B. Slonaker, M. Greenwood, J. Baer, E. Pfau, M. Grimstvedt, C. Wilborn, A. Thomas, L. Autrey, T. Magrans, B. Marcello, C. Mulligan, D. Rohle, **L. Taylor**, A. Vacanti, S. Ounpraseuth, P. Casey, R. Wilson (2004). Effects of the Curves® Fitness and Weight Loss Program on Markers of Health. **Annual meeting of the American College of Sports Medicine.** Indianapolis, IN. 2004.
103. Kreider, R., C. Rasmussen, C. Kerksick, B. Campbell, J. Bauer, B. Slonaker, C. Wilborn, A. Thomas, T. Magrans, B. Marcello, **L. Taylor**, C. Mulligan, D. Rohle, A. Vacanti, L. Autrey, S. Ounpraseuth, P. Casey, M. Greenwood, R. Wilson (2004). Effects of the Curves® Fitness & Weight Loss Program on Weight Loss and Resting Energy Expenditure. **Annual meeting of the American College of Sports Medicine.** Indianapolis, IN. 2004.
104. Greenwood, M., R. Kreider, FACSM, C. Rasmussen, C. Kerksick, B. Leutholtz, T. Magrans, B. Marcello, **L. Taylor**, C. Mulligan, D. Rohle, A. Vacanti, L. Autrey, S., B. Campbell, B. Slonaker, J. Bauer, Emily Pfau, Megan Grimstvedt, C. Wilborn, A. Thomas, Ounpraseuth, P. Casey, R. Wilson (2004). Effects of the Curves® Fitness Program on Muscular Strength, Muscular Endurance, and Maximal Aerobic Capacity. **Annual meeting of the American College of Sports Medicine.** Indianapolis, IN. 2004.
105. Fogt, D., **L. Taylor**, C. Mulligan, D. Rohle, A. Vacanti, C. Rasmussen, C. Kerksick, T. Magrans, B. Campbell, J. Baer, A. Thomas, B. Slonaker, E. Pfau, M. Grimstvedt, C. Wilborn, B. Marcello, S. Ounpraseuth, P. Casey, R. Wilson, M. Greenwood, R. Kreider, C. Earnest (sponsor). Effects of the Curves® Fitness & Weight Loss Program VI: Insulin Sensitivity. **Annual Experimental Biology Meeting.** Washington, DC. 2004.
106. **Taylor, L.**, Mulligan, C., D. Rohle, D. Fogt, C. Kerksick, C. Rasmussen, S. Ounpraseuth, P. Casey, R. Kreider, & C.P. Earnest. Effects of Zinc Magnesium-Aspartate (ZMA) Supplementation During Training on Markers of Anabolism and Catabolism. **Annual Experimental Biology Meeting.** Washington DC. 2004.
107. Vacanti, A., **L. Taylor**, C. Mulligan, D. Rohle, D. Fogt, C. Rasmussen, C. Kerksick, T. Magrans, B. Campbell, J. Baer, A. Thomas, B. Slonaker, E. Pfau, M. Grimstvedt, C. Wilborn, B. Marcello, S. Ounpraseuth, P. Casey, R. Wilson, M. Greenwood, R. Kreider, C. Earnest (sponsor). Effects of the Curves® Fitness & Weight Loss Program V: Relationship of Leptin to Weight Loss. **Annual Experimental Biology Meeting.** Washington DC. 2004.
108. Rohle, D., C. Mulligan, **L. Taylor**, D. Fogt, C. Wilborn, C. Kerksick, C. Rasmussen, S. Ounpraseuth, P. Casey, M. Greenwood, R. Kreider & C.P. Earnest (sponsor). Effects of Methoxyisoflavone, Ecdysterone, and Sulfo-Polysaccharide (CSP3) Supplementation During Training on Markers of Anabolism & Catabolism. **Annual Experimental Biology Meeting.** Washington DC. 2004.
109. Mulligan, C., D. Fogt, **L. Taylor**, C. Mulligan, D. Rohle, A. Vacanti, C. Rasmussen, C. Kerksick, T. Magrans, B. Campbell, J. Baer, A. Thomas, B. Slonaker, E. Pfau, M. Grimstvedt, C. Wilborn, B. Marcello, S. Ounpraseuth, P. Casey, R. Wilson, M. Greenwood, R. Kreider, C. Earnest (sponsor). Effects of the Curves® Fitness & Weight Loss Program VI: Insulin Sensitivity. **Annual Experimental Biology Meeting.** Washington DC. 2004.
110. Kerksick, C., C. Rasmussen, C. Kerksick, T. Magrans, B. Campbell, J. Baer, B. Slonaker, E. Pfau, M. Grimstvedt, C. Wilborn, A. Thomas, B. Marcello, **L. Taylor**, C. Mulligan, D. Rohle, A. Vacanti, L. Autrey, S. Ounpraseuth, P. Casey, M. Greenwood, R. Wilson, C. Earnest (sponsor). Effects of the Curves® Fitness & Weight Loss Program I: Body Composition. **Annual Experimental Biology Meeting.** Washington DC. 2004.
111. Thomas, A., C. Rasmussen, C. Kerksick, T. Magrans, B. Campbell, J. Baer, B. Slonaker, E. Pfau, M. Grimstvedt, C. Wilborn, B. Marcello, **L. Taylor**, C. Mulligan, D. Rohle, A. Vacanti, L. Autrey, S. Ounpraseuth, P. Casey, R. Wilson, M. Greenwood, R. Kreider, C. Earnest (sponsor). Effects of the Curves® Fitness & Weight Loss Program II: Resting Energy Expenditure. **Annual Experimental Biology Meeting.** Washington DC. 2004.
112. Rasmussen, C., C. Kerksick, T. Magrans, B. Campbell, J. Baer, A. Thomas, B. Slonaker, E. Pfau, M. Grimstvedt, C. Wilborn, B. Marcello, **L. Taylor**, C. Mulligan, D. Rohle, A. Vacanti, L. Autrey, S. Ounpraseuth, P. Casey, R. Wilson, M. Greenwood, R. Kreider, C. Earnest (sponsor). Effects of the Curves® Fitness & Weight Loss Program III: Training Adaptations. **Annual Experimental Biology Meeting.** Washington DC. 2004.

113. Slonaker, B., C. Rasmussen, C. Kerksick, T. Magrans, B. Campbell, J. Baer, A. Thomas, E. Pfau, M. Grimstedt, C. Wilborn, B. Marcello, **L. Taylor**, C. Mulligan, D. Rohle, A. Vacanti, L. Autrey, S. Ounpraseuth, P. Casey, R. Wilson, M. Greenwood, R. Kreider, C. Earnest (sponsor). Effects of the Curves® Fitness & Weight Loss Program IV: Health Markers. **Annual Experimental Biology Meeting.** Washington DC. 2004.
114. Bowden, R., B. Lanning, C. Rasmussen, C. Kerksick, T. Magrans, B. Campbell, J. Baer, A. Thomas, B. Slonaker, E. Pfau, M. Grimstedt, C. Wilborn, B. Marcello, D. Fogt, **L. Taylor**, C. Mulligan, D. Rohle, A. Vacanti, S. Ounpraseuth, P. Casey, R. Wilson, M. Greenwood, R. Kreider, C. Earnest (sponsor). Effects of the Curves® Fitness & Weight Loss Program VII: Quality of Life. **Annual Experimental Biology Meeting.** Washington DC. 2004.
115. **Taylor, L.**, C. Mulligan, D. Rohle, A. Vacanti, D. Fogt, C. Rasmussen, C. Kerksick, B. Campbell, J. Baer, B. Slonaker, C. Wilborn, A. Thomas, B. Marcello, E. Pfau, M. Grimstedt, J. Opusunju, S. Ounpraseuth, P. Casey, M. Greenwood, R. Wilson, & R. Kreider. Analysis of the safety of the Curves™ fitness and weight loss program high protein diets. **Annual International Society of Sports Nutrition Meeting.** Las Vegas, NV. 2004.
116. Kerksick, C, B. Campbell, L. Taylor, C. Wilborn, C. Rasmussen, T. Vacanti, M. Greenwood, R. Bowden, R. Wilson, & R. Kreider. Pharmacokinetic profile of time released and non-time released oral arginine. **Annual International Society of Sports Nutrition Meeting.** Las Vegas, NV. 2004.
117. Campbell, B, J. Baer, M. Roberts, T. Vacanti, B. Marcello, A. Thomas, C. Kerksick, C. Wilborn, D. Rohle, **L. Taylor**, C. Rasmussen, M. Greenwood, R. Wilson, & R. Kreider. Effects of arginine alpha-ketoglutarate supplementation on body composition and training adaptations. **Annual International Society of Sports Nutrition Meeting.** Las Vegas, NV. 2004.
118. Vacanti, T., B. Campbell, J. Baer, M. Roberts, T. Vacanti, B. Marcello, A. Thomas, C. Kerksick, C. Wilborn, D. Rohle, **L. Taylor**, C. Rasmussen, M. Greenwood, R. Wilson, & R. Kreider. Effects of arginine alpha-ketoglutarate supplementation on markers of catabolism and health status. **Annual International Society of Sports Nutrition Meeting.** Las Vegas, NV. 2004.
119. Nassar, E., R.G. Bowden, B. Campbell, T. Vacanti, Kerksick C, J. Baer, M. Roberts, B. Marcello, A. Thomas, **L. Taylor**, C. Wilborn, C. Rasmussen, S. Ounpraseuth, P. Casey, M. Greenwood, R. Wilson, & R. Kreider. Effects of arginine alpha-ketoglutarate supplementation on quality of life. **Annual International Society of Sports Nutrition Meeting.** Las Vegas, NV. 2004.
120. Wilborn, C., J. Baer, B. Campbell, A. Thomas, B. Slonaker, T. Vacanti, B. Marcello, C. Kerksick, C. Rasmussen, **L. Taylor**, C. Mulligan, D. Rohle, D. Fogt, R. Wilson, M. Greenwood, R. Kreider. Effects of ZMA supplementation on the relationship of zinc and magnesium to body composition, strength, sprint performance, and metabolic and hormonal profiles. **Annual International Society of Sports Nutrition Meeting.** Las Vegas, NV. 2004.
121. Willoughby, D.S., M. Brown, & **L. Taylor**. Effects of repeated bouts of eccentric exercise on HSP-72 expression and the Ubiquitin Proteolytic Pathway. **Annual Experimental Biology Meeting.** San Diego, CA. 2003.

## SUPPORT

### Grants and Grant Involvement

#### University of Mary Hardin-Baylor

1. *Impact of Resistance Exercise Contraction Length on Biomarkers of Skeletal Muscle Satellite Cell Activation in Trained Males.* **Funded by UMHB Graduate Faculty Research Grant.** (PI: Lem Taylor), \$9,750. Fall 2024-Present.
2. *Effects of Chronic Ingestion of a Commercially Available Thermogenic Dietary Supplement on REE and Body Composition Indices.* **Funded by EHP Labs,** (Co-PI's: Lem Taylor and Mandy Parra), \$70,500 Fall 2024-Present.

3. *Comparative Differences Of Amino Acid Appearance Following The Ingestion Of A Milk Food Source With And Without Probiotic.* **Funded by Deerland, Inc.** (PI: Lem Taylor), \$106,987. Fall 2023-Present.
4. *Impact of Resistance Exercise Volume on Biomarkers of Skeletal Muscle Satellite Cell Activation in Trained Females.* **Funded by UMHB Graduate Faculty Research Grant.** (Co-I: Lem Taylor/Thesis Chair for Christine Florez), \$10,000. Spring 2022-Present.
5. *Comparative Differences of Bioavailability and Nutrient Absorption: Iron and Vitamin D.* **Funded by Ashland Inc.,** (PI: Lem Taylor), \$63,150. Fall 2022-Fall 2024.
6. *Impact of Resistance Exercise Volume on Biomarkers of Skeletal Muscle Satellite Cell Activation in Trained Females.* **Funded by UMHB Graduate Faculty Research Grant.** (Co-I: Lem Taylor/Thesis Chair for Christine Florez), \$10,000. Spring 2022-Present.
7. *Impact of Antigravity Simulated Environment on the Physiological Response to a Graded Exercise Treadmill Test.* **Funded by UMHB Graduate Faculty Research Grant.** (Co-PI: Lem Taylor & Sydney Kutter), \$9,734. Spring 2023-Present.
8. *Body Composition Characteristics and Knee Injury Prevalence of NCAA Division III Sports Athletes.* **Supported by HPL.** (PI: Lem Taylor). Summer 2019-Present.
9. *Comparative Differences of Bioavailability and Nutrient Absorption: Zinc GMP vs. USP Zinc.* **Funded by Ashland Inc.,** (PI: Lem Taylor), \$36,162. Fall 2023-Spring 2024.
10. *Comparative Differences of Bioavailability and Nutrient Absorption: Zinc and B12.* **Funded by Ashland Inc.,** (PI: Lem Taylor), \$69,190. Summer 2022-Summer 2023.
11. *Comparative Differences of Amino Acid Appearance With and Without Probiotic Ingestion.* **Funded by Increnovo LLC.** (PI: Lem Taylor), \$50,715. Fall 2021-Summer 2023.
12. *Comparative Differences Of Amino Acid Appearance Following The Ingestion Of A Vegan Food Source With And Without Probiotic.* **Funded by SoFar S.p.a.** (PI: Lem Taylor), \$64,790. Fall 2020-Spring 2023.
13. *Seasonal Changes in VO2max and Body Composition Characteristics and Knee Injury Prevalence of NCAA Division III Cross-Country Athletes.* **Supported by HPL.** (PI: Lem Taylor). Summer 2019-Summer 2022.
14. *Effects of Ingestion of a Commercially Available Thermogenic Dietary Supplement on REE, Substrate Utilization, and Mood Responses.* **Funded by EHP Labs,** (PI: Lem Taylor), \$56,276 Summer 2021-Fall 2022.
15. *CYP1A2 Genotype Variation and Ergogenic Effects of Caffeine on Resistance Exercise.* **Funded by UMHB Graduate Faculty Research Grant.** (Co-I: Lem Taylor/Thesis Chair for Jessica Prather), \$10,000. Spring 2021-Summer 2022.
16. *Effects of Ingestion of a Commercially Available Thermogenic Dietary Supplement on REE, Markers of Fat Metabolism and Mood Responses.* **Funded by EHP Labs,** (PI: Lem Taylor), \$26,162. Fall 2020-Summer 2022.
17. *Effects of Lactobacillus Acidophilus MPH734 on Acute, Subacute, and Sustained Lactose Tolerance in Healthy Adults.* **Funded by Manzo Pharmaceuticals.** (Co-I: Lem Taylor), \$109,000. Spring 2020-Fall 2022.
18. *The Effects of Blood Flow Restriction Training with and without Arginine Supplementation in Collegiate Aged Resistance Trained Females.* **Funded by UMHB Graduate Faculty Research Grant.** (Co-I: Lem Taylor), \$10,000. Fall 2019-Spring 2020.
19. *The Analysis of Movement and Physiological Demands in Rugby Players Using GPS Player Tracking Data.* **Supported by HPL.** (PI: Lem Taylor). Summer 2019-Fall 2020.
20. *The Analysis of Movement and Physiological Demands in International Touch Rugby Players Using GPS Player Tracking Data.* **Supported by HPL.** (PI: Lem Taylor). Summer 2019-Fall 2020.
21. *Effects of A-GPC on Reaction Time and Cognitive Function Under Acute Sleep-Deprived Conditions.* **Funded by Chemi Nutra, LLC.** (PI: Lem Taylor), \$23,512. Fall 2018-Fall 2020.
22. *Comparative Differences of Amino Acid Appearance With and Without Probiotic Ingestion.* **Funded by Increnovo LLC.** (PI: Lem Taylor), \$20,075. Summer 2019-2020.
23. *Evaluation of the efficacy and safety of Fenugreek extract ingestion on markers of muscle damage and inflammation on healthy non-resistance trained subjects.* **Funded by Indus Biotech, Inc.** (PI: Lem Taylor), \$103,500. Fall 2017-Spring 2020.

24. *12 Weeks of Nitrate, Beta-Alanine, or Combined Treatment Supplementation in NCAA Division 3 Men's Soccer. Supported in part by Onnit Labs, LLC. and the HPL.* (PI: Lem Taylor), \$5,000 plus treatment preparation/donation. Spring 2019-Fall 2019.
25. *The Acute Response of Nutritive vs. Non-Nutritive Sweeteners in Soft Drinks of Blood Glucose and Insulin in Regular Soft Drink Consumers. Funded by UMHB Graduate Faculty Research Grant.* (PI: Lem Taylor), \$10,000. Summer 2017-2018.
26. *Effects of Ingestion of a Commercially Available Thermogenic Dietary Supplement (AMPLIFIRE) on REE, Cardiovascular and Mood Responses. Funded by Dymatize, Inc.* (PI: Lem Taylor), \$8,965. Summer 2018-2019.
27. *Effects of Acute Resistance Exercise on Different Measures of Body Composition. Funded by HPL.* (PI: Lem Taylor). Summer 2018-2021.
28. *Lower Limb Muscle Activity and Recruitment Patterns Measured via Electromyography in Back Squat Variations. Funded by UMHB Graduate Faculty Research Grant.* (PI: Lem Taylor), \$10,000. Summer 2018-Present.
29. *Genetic influences on sport performance and athlete health: ACTN3 R577X and APOE polymorphisms in highly trained NCAA athletes. UMHB Expenses Funded by L. Taylor.* (PI at UMHB: L. Taylor; PI at TCU: J. Oliver). Summer 2017-2019.
30. *The effects of blood flow restriction training on strength, body composition, and hormone response in recreationally trained college-aged females. Supported by DPT Program and HPL.* (PI: C. Wilborn; Co-I: Lem Taylor). Fall 2018-Spring 2019.
31. *Examination of biomarkers of sub-concussive impacts in men and women's DIII soccer players. UMHB Expenses Funded by L. Taylor.* (PI at UMHB: L. Taylor, PI at TCU: J. Oliver). Summer 2017-Fall 2018.
32. **Graduate Faculty Research Grant.** (PI: Lem Taylor), \$9,625, Fall 2016-Fall 2018.
33. *Effects Of A Proprietary Supplement On The Acute Responses In Reaction Time, Mental Performance, And Indicators Of Focus In Athletic Populations. Funded by Nature's Bounty (NBTY), Inc.* (PI: Lem Taylor), \$31,680, Summer 2016-2018.
34. *Effects of Hyperox Supplementation on Blood Flow of the Brachial Artery, Hemodynamics, Blood Safety Profiles, Muscular and Endurance Performance In Resistance-Trained Males. Funded by Indus Biotech.* (PI: C. Wilborn, serve as co-investigator), Spring 2016-2018.
35. *The Effects of Iron Aid® IPS on Performance, Fatigue and Iron Levels during 12-Weeks of Supplementation and Aerobic Training. Funded by ChemiNutra, Inc.* (PI: C. Wilborn, L. Taylor serves as co-investigator), Spring 2016-2018.
36. *The Effects of 28 Days of Curcumin Supplementation on Perceived Muscle and Joint Soreness and Circulating Markers of Inflammation in Response to Muscle-Damaging Eccentric Exercise. Funded by OmniActive Health Technologies, Inc.* (PI: C. Wilborn, L. Taylor serves as co-investigator), Spring 2016-Summer 2016.
37. *Effects of Salacia Reticulata on Markers of Cardio-Metabolic Health and Body Composition in Healthy Men and Women. Funded by Increnovo, Inc.* (PI: Colin Wilborn, L. Taylor served as co-investigator), University of Mary Hardin-Baylor, Spring 2015.
38. *Effects Of Cocoa Ingestion On Vessel Diameter And Blood Flow In Healthy Men And Women. Funded by Dymatize, Inc.* (PI: C. Wilborn, serve as co-investigator), Spring 2016-2017.
39. *Effects of Teacrine Supplementation On Mood Profiles, Hemodynamics, And Blood Safety Profiles In Healthy Adults. Funded by Compound Solutions, Inc.* (PI: Lem Taylor, Study Coordinator: Stacie Urbina), \$52,000, Fall 2014-Fall 2015.
40. *Effects of 30 Days of Cleanse™ Supplementation on Measures Body Composition, Waist Circumference, Hydration, and Blood Clinical Safety Profiles in Females. Funded by MusclePharm, Inc.* (PI: Lem Taylor, Study Coordinator: Emily Santos), \$8,950, Spring 2015-2016.
41. *Effects of a Proprietary Thermogenic and Cutting Agent on Measures of Muscular Strength and Endurance, Body Composition, Fat Metabolism, and Hormone Levels. Funded by MusclePharm, Inc.* (PI: Lem Taylor, Study Coordinator: Jordan Outlaw), \$9,750, Spring 2014-Spring 2015.

42. *Comparison of Plasma Free Fatty Acid Content and Caloric Expenditure After a Single Bout of Moderate-Intensity and High-Intensity Treadmill Exercise in Young Females. Supported by HPL.* (PI: Colin Wilborn, serve as Co-Investigator). Spring 2014.
43. *The Effects of Testosurge on Strength, Body composition, and Hormonal Response to Resistance Training in older men. Funded by Indus Biotech.* (PI: C. Wilborn, serve as Co-Investigator), Fall 2013-Fall 2015.
44. *Effects of Intermittent Fasting on Markers of Body Composition and Blood Profiles. Supported by HPL.* (PI: C. Wilborn, L. Taylor served as Co-Investigator; Study coordinator: Sara Hayward), summer 2013-2015.
45. *The Effects of Dietary Intervention on Hormonal Responses and Muscular Performance to an Overreaching Model in Females. Supported by HPL, Partially Funded by UMHB Graduate Research Grant.* (PI: C. Wilborn, L. Taylor served as Co-Investigator), Fall 2013-2016.
46. *Effect of Acute and Sub acute hCG Activator Supplementation vs. Placebo in Overweight & Obese Adults. Funded by iSatori Technologies, Inc.* (PI: Lem Taylor, Study Coordinator: Jordan Outlaw), \$61,250, 2012-Summer 2013.
47. *Effects of a CrossFit vs. Traditional Resistance Exercise Protocol on Hemodynamic and Hormonal Responses in Young Males. Graduate Faculty Research Grant.* (PI: Lem Taylor, Study Coordinator: Josh Holt), \$9,849, 2012-Spring 2013.
48. *Effects of a Proprietary Amino Acid Blend on Markers of Performance, Fatigue, and Mood State. Funded by Dymatize.* (PI: C. Wilborn, L. Taylor served as co-investigator), Spring 2013.
49. *The Effects of Post-Exercise Protein Consumption on Body Composition and Performance Measures in Collegiate age Female Athletes. Supported by HPL, Supplementation provided by Dymatize.* (PI: C. Wilborn, L. Taylor served as a co-investigator), Fall 2012-Spring 2013.
50. *The Effects of Post-Exercise Whey Protein plus Creatine vs. Whey Protein Consumption on Body Composition and Performance Measures in Collegiate age Females. Supported by HPL, Supplementation provided by Dymatize.* (Co-PI: L. Taylor), Fall 2012-2013.
51. *Pre- to Post-Season Strength and Performance Variable Changes in Division III Collegiate Female Volleyball Players. Supported by HPL.* (PI: L. Taylor, Study coordinator: Sara Hayward), Fall 2012.
52. *Effects of Ingestion of a Commercially Available Thermogenic Dietary Supplement on REE, Hemodynamic, and ECG Responses. Funded by Dymatize.* (PI: C. Wilborn, served as co-investigator). Spring-Summer 2012.
53. *Pre- to Post-Season Strength and Performance Variable Changes in Division III Collegiate Female Basketball Players. Supported by HPL.* (PI: L. Taylor, Study coordinator: Amanda Buckley), Fall 2011-Spring 2012.
54. *The effects of Beta Alanine on Body Composition and Performance Measures in Collegiate Females. Supplementation provided by Dymatize.* (PI: C. Wilborn, served as co-investigator). Spring 2012.
55. *A Double-Blind, Randomized, Placebo-Controlled, Crossover Study to Evaluate the Efficacy of Legumase® for the Prevention of Gastric Distress in Healthy Male and Female Volunteers. Triarco.* (PI: C. Wilborn, served as co-investigator), \$19,600, Fall 2011-Summer 2012.
56. *Effects of Slimaluma on Appetite, Weight, Metabolism and Bio-Markers of Weight Control. Gencor Pacific.* (PI: C. Wilborn. Co-Investigator: L. Taylor. Study Coordinator: Stacie Urbina), Fall 2011-Spring 2012.
57. *Evaluation of Ingesting a Proprietary Blend Containing D-Aspartic Acid & Fenugreek on Serum Testosterone Values in Healthy Males. Myogenix Nutrition.* (PI: C. Wilborn, served as a co-investigator), Summer 2011.
58. *A Double-Blind, Randomized, Placebo-Controlled, Crossover Study to Evaluate the Efficacy of Legumase for the Prevention of Gastric Distress in Healthy Male and Female Volunteers. Triarco.* Summer 2011-Fall 2011.
59. *Evaluation of Ingesting a Proprietary Blend Containing D-Aspartic Acid on Serum Testosterone Values in Healthy Males. Labrada Nutrition, Inc.* (PI: Lem Taylor), \$3,720, Spring 2011.

60. *Effects of Testofen on Strength, Body Composition, and Hormonal Response to Resistance Training.* **Gencor Pacific Group, Inc.** (PI: C. Wilborn, L. Taylor served as co-investigator), 2011.
61. *Effects of Pre- and Post-Exercise Whey Protein vs. Simple Carbohydrate Consumption on Body Composition and Performance Measures in Collegiate DIII Female Athletes.* **Graduate Faculty Research Grant.** (PI: Lem Taylor), \$6,568, Fall 2010.
62. *Effects of Tribustol supplementation and combined Resistance Training on Strength, Body composition, and Hormonal Changes in Males.* **Nutritional Ergogenic Systems, Inc.** (PI: Lem Taylor, Study Coordinator: Fanny DuFour), \$18,920, Spring 2010.
63. *Acute Glycemic and Blood Lipid Response to the Ingestion of a Candy Bar-Inspired Protein Supplement Compared to Its Candy Bar Counterpart.* **Human Performance Lab & Exercise Biochemistry Lab, UMHB.** (PI: K. Dugan, L. Taylor served as co-investigator). Spring 2011.
64. *A Comparison of Adaptations via 12 Weeks of Either a Linear Periodization or an Undulating Periodization Model of Weight Training.* **Human Performance Lab.** (PI: C. Wilborn, L. Taylor served as co-investigator), 2009-2011.
65. *Effects Post-Exercise Protein Consumption on Body Composition and Performance Measures in Collegiate DIII Football Players.* **Human Performance Lab.** (Co-PI's: Lem Taylor and Colin Wilborn), Spring 2010.
66. *Effects of Pre- and Post-Exercise Whey vs. Casein Protein Consumption on Body Composition and Performance Measures in Collegiate Female Athletes.* **HPL and EXSS.** (PI: Lem Taylor), Fall 2009.
67. *Effects of a Novel Resistance Exercise Protocol on Hormonal Status in Young Males and Females.* **Graduate Faculty Research Grant.** (PI: Lem Taylor), \$9,965, 2008-2009.
68. *Effects of BIOCREAT Supplementation on Strength and Body Composition Changes in Resistance-Trained Males.* **Indus Biotech.** (PI: Colin Wilborn, L. Taylor served as co-investigator), 2008-2009.
69. *Effects of IND-15 on Strength, Body composition, and Anabolic Hormonal Response to Resistance Training.* **Indus Biotech.** (PI: Colin Wilborn, L. Taylor served as co-investigator), 2008-2009.
70. *Effects of Carbohydrate-Amino Acid Supplementation with Endurance Training on Aerobic Performance Markers.* **HPL and EXSS.** (PI: C. Foster, L. Taylor served as co-investigator), 2008-2009.
71. *The Impact of Differing Types of Physical Activity on Weight Loss, Energy Expenditure, and the Hormones Insulin, Leptin, and Ghrelin.* **Graduate Faculty Research Grant.** (PI: Colin Wilborn, serving as co-investigator), \$9,925, 2007-2008.
72. *Effects of IB-IS (fenugreek extract) on Strength, Body Composition, and Hormonal Profiles.* **Indus Biotech.** (PI: Colin Wilborn, serving as co-investigator and supervised serum hormone analyses), 2007-2008.
73. *Effects of Amped Up on Acute REE and Hemodynamic Function in Males and Females.* **Supported by MetRx.** (PI: Colin Wilborn, served as co-investigator and assisted in acquisition of support), 2007-2008.
74. *Effects of a Proprietary Blend of Anti-Inflammatory Ingredients on Eccentric Induced Muscle Damage.* **Indus Biotech.** (PI: Colin Wilborn, served as co-investigator and supervised serum cytokine analyses), 2007-2008.

#### University of West Florida

75. *Effects of Training Status on the Signal Transduction Response (MAPK) in Skeletal Muscle.* **Research and Sponsored Programs.** (Principle Investigator), \$2,000, 2007-2008.
76. *Effects of Power Plate Vibration Intervention on Fatigue and Power Production in Untrained College-aged Males and Females.* **Andrews Institute & University of West Florida.** (PI: Scott Marzilli, served as co-investigator and assisted in acquisition of funds), \$2,000, 2007.
77. *Effect of Age and Type-2 Diabetes on the Release of Interleukin (IL)-6, IL-10, TNF-Alpha, and Cortisol in Response to Acute Exercise.* **Grant awarded by the Office of Research and Graduate Studies, the University of West Florida.** (PI: Petra Schuler, responsible for hormonal analyses, assisted in blood/data collection and co-author), \$2,000, 2006-2007.



## **Baylor University**

78. *Effects of Low- and High-Intensity Single-Leg Resistance Exercise on the Mitogen-Activated Protein Kinase ERK1/2 and p38 Families' Signal Transduction Response in Skeletal Muscle of Untrained Males.* **National Strength and Conditioning Association, Texas Chapter of American College of Sports Medicine & Faculty Small Grant Award**, (PI: L. Taylor), \$5,000, 2005-2006.
79. *Effects of Low- and High-Intensity Resistance Exercise on Skeletal Muscle Specific Transcription Factor Activity and Myosin Heavy Chain Gene Expression in Untrained Males.* **National Strength & Conditioning Association.** (PI: Colin Wilborn, served as co-investigator, muscle biopsy technician and co-author), \$1,000, 2005-2006.
80. *Women's Health Initiative.* **Curves International.** (PI: Richard Kreider), 5-Year initiative that consists of several investigations regarding many women's health issues, \$5,000,000, 2004-2009:
  - *The Impact of Varying Levels of Caloric Intake and Macronutrient Breakdown on Changes in Energy Expenditure and Body Composition.* (Served as research assistant, hormonal analysis supervisor, and co-author), 2005-2010.
  - *Effects of the Curves for Women® Fitness and Weight Loss Program on Body Composition, Metabolism, and Exercise Capacity in Sedentary Overweight Females: Study II.* (Served as research assistant, hormonal analysis supervisor and co-author), 2003-2005.
81. *Effects of Arachidonic Acid Supplementation on Training Adaptations in Resistance-Trained Males.* **Molecular Nutrition.** (PI: Richard Kreider, served as research assistant and muscle biopsy technician), \$68,000, 2005-2006.
82. *Effects of Novadex Supplementation on Androgen Levels During Resistance Training.* **Gaspari Nutrition, Inc.** (PI: Dr. Darryn Willoughby, served as co-investigator and as hormonal analysis supervisor), \$42,000, 2005.
83. *Effects of JavaFit Energy Extreme Ingestion on Resting Energy Expenditure (Part 1) and Anaerobic and Aerobic Performance Variables (Part 2) and Hemodynamic Responses.* **Javalution Coffee Company, Inc.** (PI: Dr. Darryn Willoughby, served as study coordinator, co-investigator and co-author), \$10,000, 2005.
84. *Effects of 6-Oxo Supplementation on Androgen Levels Following Training.* **Proviant Laboratories.** (PI: Dr. Darryn Willoughby, served as co-investigator and co-author), \$38,750, 2004-2005.
85. *Effects of Hindlimb-Unweighting on Myostatin mRNA Expression in Fast and Slow-Twitch Rodent Muscles,* **Texas Chapter of American College of Sports Medicine.** (Principle Investigator), \$500, 2004-2005.
86. *Effects of prophylactic doses of a melatonin supplement on serum growth hormone levels and the hypothalamus-pituitary-adrenal axis in young and old males and females.* **Iovate Health Sciences Research, Inc.** (PI: Dr. Darryn Willoughby, served as co-investigator and as hormonal analysis supervisor and co-author), \$132,000, 2004.
87. *Effects of Meta-Cell Supplementation on Performance Measures and Urine Creatine Content.* **iSatori Technology.** (PI: Mike Greenwood, served as collaborator and biochemistry/hormonal analyses supervisor), \$36,000, 2004.
88. *Effects of the Curves for Women® Fitness and Weight Loss Program on Body Composition, Metabolism, and Exercise Capacity in Sedentary Overweight Females – 1 Year-Follow-Up.* **Curves International.** (PI: Richard Kreider, served as collaborator and co-author), \$385,000, 2003-04.
89. *Effects of Methoxyisoflavone, Ecdysterone, and Sulfo-Polysaccharide (CSP3) Supplementation During Training on Performance Measures & Markers of Anabolism & Catabolism.* **MuscleTech Research & Development, Inc.** (PI: Richard Kreider, served as hormonal analysis supervisor and co-author), (\$84,000), 2003-2004.
90. *Effects of Zinc Magnesium-Aspartate (ZMA) Supplementation During Training on Performance Measures & Markers of Anabolism and Catabolism.* **Metabolic Response Sciences/Cytodyne Technology.** (PI: Richard Kreider, served as hormonal analysis supervisor and co-author), \$56,000, 2003-2004.

91. *Effects of Arginine-Alpha Ketoglutarate Supplementation on Plasma Arginine Levels and Training Adaptations.* **Medical Research Institute.** (PI: Richard Kreider, served as collaborator and co-author), \$94,000, 2003-04.

#### **Texas Christian University as Graduate Research Assistant**

92. *Effects of Three Sequential Bouts of Heavy Resistance Exercise on HSP-72 and Ubiquitin Protein Expression in Trained vs. Untrained Individuals.* **Texas Chapter of American College of Sports Medicine.** (Principle Investigator), \$500, 2003.
93. *Effects of Concentric Versus Eccentric Muscle Contractions on Markers of Muscle Damage.* **Departmental Funded.** (PI: Darryn Willoughby, served as co-investigator and co-author), 2003.
94. *Effects of Repeated Bouts of Eccentric Damage on the Ubiquitin Proteolytic Pathway and the Heat Shock Protein Pathway.* **Departmental Funded.** (PI: Darryn Willoughby, served as collaborator and co-author), 2002.
95. *Effects of Ergonomic Running Tights on Performance Variables.* **Grant Funded.** (PI: Dr. Joel Mitchell, served as study coordinator), \$20,000, 2002.

#### **Internal Support**

- **Graduate Faculty Research Grant (UMHB)** – Received small grant (\$9,750) to fund a molecular response in skeletal muscle trial in the HPL on the satellite cell activation with varied muscle contraction lengths in resistance trained males (Fall 2024).
- **Graduate Faculty Research Grant (UMHB)** – Co-Investigator on project with Dr. Darryn Willoughby (PI) on small grant (\$10,000) to fund a thesis project (Christine Florez) in the HPL on the satellite cell activation in high vs low-load resistance exercise in resistance trained females (Fall 2021).
- **Graduate Faculty Research Grant (UMHB)** – Co-Investigator on project with Dr. Sydney Kutter (PI) on small grant (\$10,000) to fund a thesis project (Jessica Prather) in the HPL done caffeine ingestion and altered effects based on caffeine metabolism genotypes (Fall 2020).
- **Graduate Faculty Research Grant (UMHB)** – Received small grant (\$10,000) to fund a project in the HPL done with DPT to study the effects of blood flow restriction training with or without arginine supplementation in females (December 2019).
- **Faculty Development Funds Award (UMHB)** – Received financial support (\$13,155) to purchase a new Biopac fNIR 5 channel system as well as to attend the Biopac T4 Conference for to learn how to better implement these laboratory devices into teaching in my and others courses (March 2019).
- **Graduate Faculty Research Grant (UMHB)** – Received small grant (\$10,000) to fund a project in the HPL and BIOPAC system acquisition to conduct a clinical trial on muscle EMG function (December 2017).
- **Graduate Faculty Research Grant (UMHB)** – Received small grant (\$9,625) to fund a project in the HPL and support travel and presentation of results at national conference proceedings (December 2015).
- **Graduate Faculty Research Grant (UMHB)** – Received small grant (\$9,849) to fund a project in the HPL and support travel and presentation of results at national conference proceedings (January 2013).
- **Summer Research Grant Award (UMHB)** – Received one-half reward (\$5,000) to support professional development and scholarly activities thru publication (July 2011).
- **Graduate Faculty Research Award (UMHB)** – Received small grant (\$4,568) to fund a project in the HPL and support travel and presentation of results at national conference proceedings (October 2010).
- **Faculty Development Funds Award (UMHB)** – Received financial support (\$15,000) to purchase a new clinical ECG for diagnostic and research assessment capabilities in the HPL (March 2009).

- **Graduate Faculty Research Award (UMHB)** – Received small grant (\$10,000) to fund a project in the HPL and provide support for equipment purchases for the Exercise Biochemistry Lab at UMHB (October 2008).
- **Undergraduate Research Award** – Faculty advisor for small grant (\$1,000) project for honors undergraduate student (January 2007).
- **University of West Florida** – Received research start-up package of \$25,000 to develop lab and purchase equipment.
- **Baylor University Graduate School Association Travel Award** – Presentation at ISSN meeting in Las Vegas, NV, (June 2006).
- **Department of Health, Human Performance, & Recreation Dissertation Grant** – Funding provided to assist with dissertation research project (March 2006).
- **Baylor University Graduate School Association Travel Award** – Presentation at FASEB meeting in San Francisco, CA, (April 2006).
- **Stable Isotope Tracer Methodology Seminar** – Funding provided to attend four-day seminar by Robert Wolfe, PhD at University of Texas Medical Branch-Galveston outlining methodology and procedures to conduct stable isotope research (February 2005).
- **Baylor University Graduate School Association Travel Award** – Presentation at ISSN Las Vegas, NV, (June 2005).
- **NSCA Challenge Scholarship** – National Strength and Conditioning Association, 2005.
- **Baylor University Graduate School Association Travel Award** – Presentation at FASEB meeting in Washington D.C., (April 2004).

#### Academic and Professional Honors

- **Excellence in Scholarship Award**, University of Mary Hardin-Baylor, April 2019.
- **Fellow of the American College of Sports Medicine (FACSM)**, ACSM, November 2016.
- **Excellence in Scholarship Award**, University of Mary Hardin-Baylor, May 2013.
- **Ironman Award for the International Society of Sports Nutrition**, ISSN, June 2013.
- **Fellow of the International Society of Sports Nutrition (FISSN)**, ISSN, September 2011.
- **Student Development Research Award (PhD Category)**, Texas Chapter of American College of Sports Medicine, February 2006.
- **NSCA Challenge Scholarship**, National Strength & Conditioning Association, 2005.
- **Student Development Research Award (PhD Category)**, Texas Chapter of American College of Sports Medicine, March 2005.
- **Academic Graduate Scholarship (\$2,500 annually renewed)**, Marti Foundation, 2003-2006.
- **Student Development Research Award (MS Category)**, Texas Chapter of American College of Sports Medicine, March 2003.
- **Summa Cum Laude Graduate**, Abilene Christian University, May 2001.
- **Dean's List**, Abilene Christian University, Every semester from Fall 1997 to May 2001.

## SERVICE

#### University Involvement at UMHB

- **Innovation Proof of Concept Committee**, University of Mary Hardin-Baylor, Fall 2024-Present.
- **Chair, Graduate Council**, University of Mary Hardin-Baylor, Fall 2019-Present.
- **Chair, Graduate Curriculum Committee**, University of Mary Hardin-Baylor, Fall 2019-Present.
- **Grant Initiative Task Force**, University of Mary Hardin-Baylor, Spring 2025-Present.
- **Faculty Search Committee**, Program Director for Anesthesiologist Assistant Program, University of Mary Hardin-Baylor, Spring 2025-Present.

- **Academic Policies and Procedures Committee**, University of Mary Hardin-Baylor, Fall 2024-Present.
- **Implementation Team**, Academic Partnerships Initiative, University of Mary Hardin-Baylor, Summer 2023-Summer 2024.
- **Data Management Team**, Academic Partnerships Initiative, University of Mary Hardin-Baylor, Summer 2023-Present.
- **External Pipelines Initiatives Team**, Strategic Planning Committees, University of Mary Hardin-Baylor, Spring 2022-Present.
- **Physical Therapy Program Admissions Committee**, *Mayborn College of Health Science*, University of Mary Hardin-Baylor, Summer 2022-Present.
- **Commencement Planning Committee**, University of Mary Hardin-Baylor, Fall 2020-Present.
- **Education Programs Writing Committee**, SACSCOC 2024 Writing Team, University of Mary Hardin-Baylor, Fall 2021-Fall 2023.
- **Faculty Search Committee**, Assistant/Associate Professor-Principal Faculty in Physician Assistant Program, University of Mary Hardin-Baylor, Summer 2022-Spring 2023.
- **Faculty Search Committee**, Assistant Professor-Anatomy & Physiology, University of Mary Hardin-Baylor, Spring-Summer 2022.
- **Commencement Planning Committee**, University of Mary Hardin-Baylor, Fall 2020-Present.
- **Chair, Tenure & Promotion Committee**, University of Mary Hardin-Baylor, Summer 2020-May 2022.
- **Co-Chair of Tenure & Promotion Committee**, University of Mary Hardin-Baylor, Fall 2020-Spring 2021.
- **Physician Assistant Program Admissions Committee**, *Mayborn College of Health Science*, University of Mary Hardin-Baylor, Summer 2020.
- **Staff Search Committee**, Head Strength & Conditioning Coach, University of Mary Hardin-Baylor, Spring-Summer 2019.
- **Faculty Search Committee**, Visiting Professor-Biochemistry, University of Mary Hardin-Baylor, Spring 2019.
- **Vice-Chair, Institutional Review Board**, University of Mary Hardin-Baylor, May 2017-July 2019.
- **Chair, Faculty Search Committee**, Assistant/Associate Professor-Exercise Physiology, University of Mary Hardin-Baylor, Fall 2018-Spring 2019.
- **Chair, Faculty Search Committee**, Instructor-Exercise Science, University of Mary Hardin-Baylor, Fall 2018-Spring 2019.
- **Tenure & Promotion Committee**, University of Mary Hardin-Baylor, Fall 2016-Spring 2019.
- **Curriculum Committee**, University of Mary Hardin-Baylor, Fall 2017-Spring 2019.
- **University Research Committee**, University of Mary Hardin-Baylor, Spring 2015-Spring 2019.
- **Graduate Council Member**, University of Mary Hardin-Baylor, Fall 2015-Spring 2019.
- **Faculty Council (College of Education, At-Large Representative)**, University of Mary Hardin-Baylor, 2016-May 2018.
- **Health Science Advisory Board**, University of Mary Hardin-Baylor, Summer 2017-Spring 2018.
- **Faculty Search Committee**, Instructor/Assistant Professor position search in the Exercise & Sport Science Department, University of Mary Hardin-Baylor, Fall 2016-Spring 2017.
- **Professional Affairs Committee**, University of Mary Hardin-Baylor, Fall 2013-2016.
- **Faculty Sponsor for the Pre-Physical Therapy Society**, University of Mary Hardin-Baylor, Spring 2013-Spring 2016.
- **Chairperson, Institutional Review Board**, University of Mary Hardin-Baylor, 2011-May 2015.
- **Faculty Search Committee**, Anatomist Position in the Doctorate of Physical Therapy program, University of Mary Hardin-Baylor, Fall 2014-Spring 2015.
- **Faculty Search Committee**, Generalist in Exercise Science Position in the Department of Exercise & Sport Science, University of Mary Hardin-Baylor, Fall 2014-Spring 2015.
- **Faculty Search Committee**, Musculoskeletal Position in the Doctorate of Physical Therapy program, University of Mary Hardin-Baylor, Fall 2014-Spring 2015.

- **Faculty Search Committee**, Exercise Physiologist Position in the Department of Exercise & Sport Science, University of Mary Hardin-Baylor, Fall 2014.
- **Quality Enhancement Plan Implementation Committee**, University of Mary Hardin-Baylor, 2012-Summer 2014.
- **Faculty Search Committee**, Program Director for Doctorate of Physical Therapy program, University of Mary Hardin-Baylor, Spring 2013-Fall 2014.
- **Campus Educator for the QEP**, University of Mary Hardin-Baylor, October 2011-Spring 2014.
- **Radiation Safety Officer**, University of Mary Hardin-Baylor, Fall 2011-2016
- **Faculty Search Committee**, Exercise Science, University of Mary Hardin-Baylor, Fall 2012-Spring 2013.
- **Quality Enhancement Plan Scoring Committee**, University of Mary Hardin-Baylor, Spring-Summer 2012.
- **Quality Enhancement Plan Planning Committee**. University of Mary Hardin-Baylor, 2011-2012.
- **Faculty Search Committee**, Exercise Science, University of Mary Hardin-Baylor, Spring 2012.
- **Environmental Concerns Committee**, University of Mary Hardin-Baylor, 2011-Spring 2013.
- **Curriculum Review Committee**, University of Mary Hardin-Baylor, Fall 2011.
- **Institutional Review Board Member**, University of Mary Hardin-Baylor, 2009-2011.
- **Faculty Search Committee**, Exercise Science and Athletic Trainer Position (2 positions), University of Mary Hardin-Baylor, 2010-2011.
- **Student Development Committee**, University of Mary Hardin-Baylor, 2009-2011.
- **Institutional Effectiveness Committee**, University of Mary Hardin-Baylor, 2009-2010.
- **Faculty Search Committee**, Exercise Science Position, University of Mary Hardin-Baylor, 2009.
- **Strength and Conditioning Consultant**, UMHB Women's Basketball, baseball and golf, 2008-Fall 2012.
- **Chisholm Trail Basketball Tournament**, Sport Management, University of Mary Hardin-Baylor, 2009.
- **Athletics Committee**, University of Mary Hardin-Baylor, 2008-2009.
- **Chisholm Trail Basketball Tournament**, Sport Management, University of Mary Hardin-Baylor, 2008.

#### Research and Laboratory Service at UMHB

- **Director of Human Performance Lab** – Director of HPL which provides testing, education, and service in the School of Exercise & Sport Science. Provides oversight of all research, staff and administrative duties, and budget for the HPL. Leads efforts in securing funding to support the mission of the HPL and EXSS, Summer 2018-Summer 2022.
- **Director of Research, Human Performance Lab** – Director of all research in the School of Exercise & Sport Science and HPL. Provide oversight for all aspects of the research process. 2016-Summer 2018.
- **Director of EBL** – Director of lab that supports the biochemical and hormonal analysis needs of the Human Performance Lab. Responsible for ordering and inventory of lab, biohazard waste pick-up, MSDS organization and maintenance, etc., 2008-Summer 2018.
- **Start-up of EBL** – Entire lab started from scratch to develop a fully functional exercise biochemistry lab. Responsibilities included ordering of new equipment, building equipment/furniture, set-up and design of laboratory, etc.

#### Exercise and Biochemical Nutrition Laboratory Service at Baylor University

- **Coordinator of EBNL** – Served as coordinator of lab and was responsible for ordering and inventory of lab, biohazard waste pick-up, MSDS organization and maintenance, etc., Fall 2003-Summer 2006.
- **EBNL In-Service** – Trained members of EBNL staff on equipment throughout lab to ensure maintenance of a high level of testing proficiency and safety.

- **Start-up of EBNL** – Entire lab started from scratch to develop a fully functional exercise biochemistry and molecular physiology lab. Responsibilities included ordering of new equipment, building equipment/furniture, set-up and design of laboratory, etc.

#### Lectures & Speaking Engagements

- **Invited Speaker** – Rock Rugby Academy, *Rugby Specific Training and Supplementation Considerations for 7s*, December 2019.
- **Invited Speaker** – Rock Rugby Academy, *Nutritional Approaches to Optimize Recovery in the High School Rugby Player*, January 2019.
- **Invited Speaker** – UMHB Men's Soccer, *Recovery and Nutritional Guidelines for Soccer*, August 2018.
- **Invited Speaker** – UMHB Football, *Nutrition, Supplementation, and Drugs*, August 2016.
- **Invited Speaker** – Europa University Workshop (Dallas, TX), *New Insights on Protein Supplementation*, June 2015.
- **Invited Speaker** – UMHB Wellness Seminar (Belton, TX), *Fad Diets*, April 2015.
- **Invited Speaker** – Angelo State University Athletic Department (San Angelo, TX), *Eat This, Not That: How to Fuel a College Athlete*, January 2015.
- **Invited Speaker** – Europa University Workshop (Dallas, TX), *Novel Protein Types in the Marketplace*, May 2014.
- **Invited Speaker** – National Strength and Conditioning Association National Meeting and Conference (Las Vegas, NV), *Protein and Amino Acids: An Up to Date Look at the Research and Current Recommendations for Athletes*, July 2013.
- **Invited Speaker** – TCU Rugby Club Meeting (Ft. Worth Texas, TX), *Hydration in Sport*, July 2013.
- **Invited Speaker** – Fort Worth Rugby Club Meeting (Ft. Worth Texas, TX), *Importance of Recovery Nutrition in Rugby Athletes*, July 2013.
- **Invited Speaker** – Europa University Workshop (Hartford, CT), *Dietary Protein Intake for Exercising Individuals*, June 2013.
- **Invited Speaker** – Fort Worth Rugby Club Meeting (Ft. Worth Texas, TX), *Dietary Planning for Improved Body Composition in Athletes*, October 2012.
- **Invited Speaker** – Europa University Workshop (Dallas, TX), *Protein and Amino Acids in Recovery and Training Adaptations*, August 2012.
- **Invited Speaker** – Texas A&M H.S. Rugby Camp (College Station, TX), *Importance of Recovery Nutrition in Rugby Athletes*, July 2012.
- **Moderator** – ISSN National Meeting, Basic Science Track, June 2012.
- **Invited Speaker** – Youth Rugby Camp (Dallas, TX), *Nutritional Strategies for Young Rugby Athletes*, November 2011.
- **Invited Speaker** – SportsMed Clinico de of Medicina del Deporte (Mexico City, MEX), *Meal Replacement Utilization in Sports Nutrition*, October 2011.
- **Invited Speaker** – SportsMed Clinico de of Medicina del Deporte (Mexico City, MEX), *Nutrient Timing for Optimal Adaptations*, October 2011.
- **Moderator** – ISSN National Meeting, Scientific Sports Nutrition, June 2011.
- **Invited Speaker** – International Society of Sports Nutrition National Meeting Sponsored Speaker (New Orleans, LA), *Practical Applications of Meal Replacement Products in Health and Performance*, June 2009.
- **Invited Speaker** – ISSN Regional Sport Nutrition Symposium (Lubbock, TX), *Basic Principles of Meal Replacement Products*, March 2009.
- **Invited Speaker** – UWF's Women's Soccer Team, *Nutritional Guidelines of Female Athletes*, August 2007.
- **Invited Speaker** – ISSN National Meeting, *Special Topics in Sports Nutrition*, June 2006.
- **Invited Speaker** – Summit Recreation Center, *Nutrition and Exercise Performance*, March 2006.
- **Lecturer** – Baylor University, *Cholesterol: Metabolism & Automated Analysis*, June 2005.
- **Lecturer** – Baylor University, *Calcium: Bone Health & Metabolism*, February 2004.
- **Invited Speaker** – Baylor Men's Golf Team, *Nutritional Guidelines for Athletes*, November 2004.
- **Lecturer** – Baylor University, *Protein Metabolism in Health & Disease*, October 2004.
- **Invited Speaker** – Baylor Women's Golf Team, *Nutritional Guidelines for Female Athletes*,

October 2004.

- **Lecturer** – Baylor University, *Carbohydrates: Structure & Sources*, October 2004.
- **Invited Speaker** – Summit Recreation Center, *Nutritional Strategies for Weight Loss*, October 2004.
- **Lecturer** – Baylor University, *Sports Performance Drinks in Performance*, October 2004.
- **Lecturer** – Baylor University, *Imaging Techniques in Body Composition*, October 2004.
- **Lecturer** – Baylor University, *Obesity*, September 2004.

### Professional Organization Committees and Involvement

- **Executive Director (Appointed position)**, *Texas Chapter of the American College of Sports Medicine*, Fall 2016-Present.
- **Grant Panel Review Committee**, *National Strength & Conditioning Association Foundation*, January 2019-July 2024.
- **ISSN Scientific Advisory Board**, *International Society of Sports Nutrition*, 2011-Present.
- **TACSM Academic Bowl Faculty Sponsor (w/Dr. Paul La Bounty) (2 teams)**, *Texas Chapter of the American College of Sports Medicine*, Fall 2018-2021.
- **TACSM Academic Bowl Faculty Sponsor**, *Texas Chapter of the American College of Sports Medicine*, Fall 2017-Spring 2018.
- **Past-President (Elected position)**, *Texas Chapter of the American College of Sports Medicine*, March 2015-March 2016.
- **Research Awards Committee (Appointed position)**, *American College of Sports Medicine*, 2013-2016.
- **President (Elected position)**, *Texas Chapter of the American College of Sports Medicine*, 2014-March 2015.
- **TACSM Academic Bowl Faculty Sponsor**, *Texas Chapter of the American College of Sports Medicine*, Fall 2014-2015.
- **President (Appointed position)**, *International Society of Sports Nutrition*, 2012-Summer 2014.
- **Program Chair for Annual Meeting**, *International Society of Sports Nutrition*, 2012-Summer 2014.
- **President-Elect (Elected position)**, *Texas Chapter of the American College of Sports Medicine*, 2013-2014.
- **TACSM Academic Bowl Faculty Sponsor (2 UMHB teams)**, *Texas Chapter of the American College of Sports Medicine*, Spring 2013.
- **MP Advisory Board**, *Metabolic Precision*, 2010-2018.
- **Student Development Research Grant Evaluation Committee**, *Texas Chapter of the American College of Sports Medicine*, 2013.
- **Student (Master's Category) Research Poster Judging Committee**, *National Strength & Conditioning Association*, Annual Meeting of 2012.
- **Student (PhD Category) Research Oral Presentation Judging Committee**, *National Strength & Conditioning Association*, Annual Meeting of 2012.
- **Student Research Poster Evaluation Committee**, *Texas Chapter of the American College of Sports Medicine*, 2011-2012.
- **TACSM Academic Bowl Faculty Sponsor**, *Texas Chapter of the American College of Sports Medicine*, 2010-2012.
- **Non-Medicine Representative on the Board of Directors**, *Texas Chapter of the American College of Sports Medicine*, 2009-2012.
- **ISSN Conference Abstract Committee Member**, *International Society of Sports Nutrition*, 2010-2011.
- **Student Development Research Award Committee**, *Texas Chapter of the American College of Sports Medicine*, 2009-2012.
- **Student Affairs Committee Member**, *American College of Sports Medicine*, 2004-2006.
- **Student Representative on the Board of Directors**, *Texas Chapter of the American College of Sports Medicine*, 2003-2006.

### Consultation and Advisement Involvement

- **Sport Nutrition Consultant**, *USA Rugby ARC Team*, 2018-Spring 2019.
- **Sport Nutrition Consultant**, *USA Rugby Junior All-Americans*, 2016-Spring 2018.
- **Strength and Conditioning Consultant**, *Texas Christian University and Bonobo 7's Rugby Clubs*, March 2013-2015.
- **Sport Nutrition Consultant**, *Texas Christian University Rugby*, 2012-2015.
- **Sport Nutrition Consultant**, *Fort Worth Rugby Club*, Fall 2009-2012.
- **ISSN Scientific Advisory Board**, *International Society of Sports Nutrition*, 2011-Present.
- **Strength and Conditioning Consultant**, *University of Mary Hardin-Baylor Women's Basketball Team*, 2008-2012.

### Journal Review Boards

- **Associate Editor**, *Journal of the International Society of Sports Nutrition*, 2013-Present.
- **Review Editor**, *Frontiers in Nutrition: Sport and Exercise Nutrition*, 2015-Present.
- **External Reviewer**, *Nutrition & Metabolism*, 2011-Present.
- **External Reviewer**, *European Journal of Sport Science*, 2015-Present.
- **External Reviewer**, *Food & Function*, 2016-Present.
- **External Reviewer**, *Nutrients*, 2014-Present.
- **External Reviewer**, *Strength & Conditioning Journal*, 2012-Present.
- **External Reviewer**, *Journal of Dietary Supplements*, 2016-Present.
- **External Reviewer**, *International Journal of Sports Medicine*, 2011-Present.
- **External Reviewer**, *International Journal of Exercise Science*, 2009-Present.
- **External Reviewer**, *International Journal of Kinesiology & Sports Science*, 2014-Present.
- **Section Editor**, *Journal of Sport Science & Medicine: Sport Nutrition, Supplementation and Drug Section*, 2014-2017.
- **Guest Editor**, *Strength & Conditioning Journal*, 2012-2017.
- **Member of Editorial Review Board**, *Journal of the International Society of Sports Nutrition*, 2008-2015.
- **External Reviewer**, *Journal of Sports Science and Medicine*, 2008-Present.
- **External Reviewer**, *Journal of Strength and Conditioning Research*, 2008-Present.
- **External Reviewer**, *Journal of the International Society of Sports Nutrition*, 2006-Present.

### Membership in Professional Societies

- **American College of Sports Medicine**, 2002–Present.
- **Texas Chapter of American College of Sports Medicine**, 2001–Present.
- **International Society of Sports Nutrition**, 2004–Present.
- **National Strength and Conditioning Association**, 2000–Present.
- **American Physiological Society**, 2005–2007, 2019-2021.

## CERTIFICATIONS

- **Certified Sport Nutritionist (CISSN)**, *International Society of Sports Nutrition* (2005-Present)
- **Adult CPR/AED Certified**, *American Heart Association* (2003-Present)
- **Adult and Child Standard First Aid Certified**, *American Red Cross* (2003)

## TECHNICAL COMPETENCIES

- Muscle Biopsies Analyses (biochemical, cellular and genetic aspects)
- Muscle Biopsy Collection & Handling (Fine Needle Aspiration and Bergstrom techniques)
- Real Time-PCR analyses



- Blood Assessment (clinical chemistries, hematology, hormone analyses, immune analyses)
- Blood Collection (finger stick, venipuncture, indwelling catheters)
- Body Composition Assessment (e.g. Anthropometrics, Skinfolds, Hydrostatic weighing)
- Dual-Energy X-ray Absorptiometry Assessment (AP Lumbar Spine, Lateral Spine, IVA, Body Composition, etc.)
- Total Body Water Assessment (BIA)
- Resting Energy Expenditure (e.g., prediction, modeling, indirect calorimetry, handheld, etc.)
- Cardiopulmonary/ECG Exercise Testing
- Endurance Performance Testing and Endurance exercise prescription
- Strength Testing (Isokinetic, Isometric and Dynamic)
- Force Plate Assessment and Ballistic Measurement Assessment
- Anaerobic Capacity Testing (e.g., vertical jump, Wingate protocols, etc.)
- Nutrition Analysis and Consultation
- Data entry/quality control/statistical analysis

## REFERENCES

Available upon request.