

Joshua S. Wooten, Ph.D.  
Curriculum Vitae  
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Department of Applied Health  
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## EDUCATION

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Postdoc.	2009-2011	Baylor College of Medicine, Houston, Texas Molecular and cellular aspects of lipid and lipoprotein metabolism. Advisors: Ron C. Hoogveen, Ph.D. and Henry J. Pownall, Ph.D.
Ph.D.	2001-2008	Texas Woman's University, Denton, Texas Kinesiology with a Specialization in Exercise Physiology Minor: Nutrition Dissertation: The acute effects of aerobic exercise on lipid and lipoprotein metabolism in women who are sedentary and obese. Chair: Kyle D. Biggerstaff, Ph.D.
M.S.	1997-2000	University of Houston, Houston, Texas Exercise Science Thesis: The assessment of pain coping responses following anterior cruciate ligament reconstruction and rehabilitation. Chair: Michael C. Meyers, Ph.D.
B.S.	1992-1997	University of Houston, Houston, Texas Kinesiology Minor: Sociology

## PROFESSIONAL EXPERIENCE

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<b>Associate Professor</b>	<b>7/2017-present</b>
Southern Illinois University Edwardsville, School of Education, Health and Human Behavior, Department of Applied Health, Campus Box 1126, Edwardsville, Illinois 62026-1126	
<b>Assistant Professor</b>	<b>8/2011-7/2017</b>
Southern Illinois University Edwardsville, School of Education, Health and Human Behavior, Department of Applied Health, Campus Box 1126, Edwardsville, Illinois 62026-1126	
<b>Adjunct Assistant Professor</b>	<b>8/2015-6/2018</b>
Southern Illinois University Edwardsville, School of Pharmacy, Department of Pharmaceutical Sciences, Campus Box 2000, Edwardsville, Illinois 62026-2000	
<b>Postdoctoral Fellow</b>	<b>1/2009-8/2011</b>
Baylor College of Medicine, Department of Medicine, Section of Atherosclerosis and Vascular Medicine, 6565 Fannin St., Fondren/Brown M.S. A601, Houston, Texas 77030	

**Research Associate****6/2006-1/2009**

Texas Woman's University, College of Health Sciences, Institute for Women's Health, Denton, Texas 76204

**Graduate Teaching Assistant****8/2001-6/2006**

Texas Woman's University, College of Health Sciences, Department of Kinesiology, Denton, Texas 76204

**Health and Fitness Specialist****12/2000-8/2001**

MediFit Corporate Services, Inc., The Body Shop, Enron Building, Houston, Texas 77001

**Graduate Teaching Assistant****8/1999-12/2000**

University of Houston, School of Education, Dept. of Health and Human Performance, Houston, Texas 77204

## TEACHING

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**Undergraduate - Southern Illinois University Edwardsville:***Exercise Science***KIN 200 – Running for Fitness**

This course is designed to improve your cardiorespiratory fitness and create a better awareness of a healthy, active lifestyle.

**KIN 275 – Introduction to Exercise Science**

The course is designed such that students will: 1) Attain a current understanding of the broad nature of this field, how it has developed and the scope of various disciplines in the field; 2) Develop an understanding of the exercise science certifications, job activities, and employment available in this field and how to apply it to your own professional development; 3) Understand the trends in this field regarding certification, licensure, practice and the relationship of exercise science to healthcare professions such as physical therapy and nursing; and 4) Learn the future development of exercise science and how the basic sciences and new technologies continue to impact this field.

**KIN 350 – Exercise Physiology**

Discussion and application of the physiological and metabolic effects that occur at rest and during exercise in humans. This course will cover bioenergetics and energy transfer, muscular contraction, and the cardiorespiratory system, as they relate to exercise, physical fitness, performance, and environmental stress.

**KIN 211 – Medical Terminology (Online class)**

This online course is designed to develop skills necessary to read and comprehend original research, medical reports, and health/fitness evaluations with regards to prefixes, suffixes, and word roots of medical terms. Emphasis is placed on building a working medical vocabulary based on body systems by studying the meaning, pronunciation, and spelling of medical terms.

**KIN 418 – Exercise Epidemiology (Hybrid-flipped classroom)**

This course will examine the effects of physical activity and exercise on populations with chronic disease and disabilities. Furthermore, this will cover the pathophysiology of several chronic

diseases and the impact of exercise and physical activity on these disease outcomes. This course is designed to provide knowledge and experiences in epidemiology, specifically physical activity and exercise epidemiology. A fundamental understanding of human physiology and basic statistical methods are critical to the application and understanding of this course material. The course material is presented with a specific application to the effects of physical activity on chronic diseases of the cardiovascular, neurological, bone, and endocrine systems, as well as cancer.

#### KIN 426 – Cardiac and Pulmonary Rehabilitation

This course will cover cardiac disease etiology, electrical conduction of the heart and ECG interpretation, and basic strategies in the design and implementation of a cardiac rehabilitation program. This course is designed to provide knowledge and experiences in clinical exercise physiology.

#### *Nutrition*

#### NUTR 319 – Nutritional Biochemistry

A course in biochemistry using nutrition as a model. It is designed to teach an in-depth study and discussion of the biochemistry and physiology of macronutrients and micronutrients. Topics will include the energetics of metabolism, the structure and metabolism of proteins, carbohydrates, and lipids, and the integration of metabolic systems. It will also include discussion related to the chemistry of nitrogenous bases and how transcription and translation is accomplished on the cellular level. Students will learn the biochemical mechanisms of nutrition and metabolism.

#### **Graduate - Southern Illinois University Edwardsville:**

#### KIN 512 – Advanced Exercise Physiology

Discussion and application of the physiological and metabolic effects that occur at rest and during exercise in humans. This course will cover bioenergetics and energy transfer, muscular contraction, and the cardiorespiratory system, as they relate to exercise, physical fitness, performance, and environmental stress. This course is designed to provide knowledge and experiences in applied physiology, specifically exercise physiology.

#### KIN 513 – Clinical Exercise Physiology (Online class)

Investigates the relationship of exercise and chronic disease; the mechanisms and adaptation by which exercise influences disease process, and the importance of exercise testing and training in the prevention, evaluation, and treatment of these diseases.

#### KIN 516 – Advanced Cardiovascular and Respiratory Physiology

Advanced study of the cardiovascular and respiratory systems in humans. This course will cover cardiovascular and respiratory structure and function, electrical conduction of the heart and ECG interpretation, hemodynamics and peripheral circulation, vascular structure and function, ventilation-perfusion relationships, gas transport, and cardiac and ventilatory control.

#### KIN 518 – Exercise Endocrinology

To provide content on the cellular and systems physiology of the neuroendocrine system. This class uses evidence-based research to understand how obesity and its related comorbidities affect neuroendocrine function. In addition, the class examined the effectiveness of several therapeutic strategies (e.g., exercise, diet) used to treat obesity, diabetes, and cardiovascular disease.

**KIN 597 – Seminar in Exercise Physiology**

This seminar will focus on exposing students to historically classic articles and current research in the field of exercise physiology. The course will focus on approximately 4 topics within our field. One class meeting will be devoted to a discussion of the “classic” article(s) for each given topic. The following class meeting will consist of student presentations/article critiques of more current research articles (within past 5 years) relating to the same topic, generally speaking, as the classic article(s).

**Undergraduate - Texas Woman’s University:****KINS 1583 – Foundations and Assessment in Kinesiology**

The intent of this class is to provide opportunities for students to be exposed to all areas of the evolving discipline of physical education through an observational and experiential curriculum.

**KINS 1931 – Weight Training**

To become knowledgeable about the safety, common training techniques, and associated risks involved with weight training. Become proficient with program design for normal populations.

**KINS 1941 – Jogging**

This course is designed to improve your cardio-respiratory fitness and create a better awareness of a healthy, active lifestyle.

**KINS 3601 – Exercise Physiology Laboratory**

This course is designed to provide introductory knowledge and experience in collecting and analyzing applied physiological data, specifically the quantitative descriptors of the human response to physical work (i.e., exercise). The course material is presented with a specific application to concepts in the measurement techniques typically utilized in an academic/research exercise physiology laboratory.

**KINS 3602 – Exercise Physiology**

Physiological effects of exercise upon the human body; basic physiological concepts and their relationship to the kinesiology program. This course will cover energy transfer, muscular contraction, and the cardiorespiratory system, as they relate to exercise, physical fitness, performance, and environmental stress.

**KINS 3701 – Practicum for Senior Adult Fitness**

Contemporary issues in adult fitness as it relates to community physical activity and wellness programming. This course serves as a pre-internship practicum that introduces the Kinesiology student to hands-on, practical experiences with older adults in a supervised university/community setting.

**KINS 4593 – Measurement and Evaluation**

The purpose of this course is to develop skills and knowledge in the administration of testing programs, the construction of written test, the selection of evaluation instruments, and the process of evaluation in wellness related fields for all populations.

**KINS 4601 – Advanced Exercise Physiology Laboratory**

This course is designed to provide introductory knowledge and experience in collecting and analyzing applied physiological data. The course material is presented with a specific application to concepts in the measurement techniques typically used in academic/research exercise physiology laboratories, and cardiac rehabilitation and fitness centers.

**KINS 4701 – Exercise Testing and Prescription Laboratory**

This course is designed for the kinesiology major, primarily those in the Exercise Science and Adapted Physical Education tracks, who wish to pursue careers in cardiac rehabilitation or corporate fitness or Adapted Physical Education. The course materials center on diverse populations, normal, healthy and special populations with a variety of abilities and disabilities. Laboratory techniques of exercise testing will be covered with the expectation that students will perform exercise-testing procedures. Specific emphasis will be placed on skills and abilities pertaining to ACSM Health and Fitness Instructor certification and the Cooper Institute Special Populations Specialty certification.

**KINS 4702 – Exercise Testing and Prescription for General and Special Populations**

This course is designed for the kinesiology major, primarily those in the Exercise Science and Adapted Physical Education tracks, who wish to pursue careers in cardiac rehabilitation or corporate fitness or Adapted Physical Education. The course materials center around diverse populations, both normal, healthy and special populations with a variety of abilities and disabilities. This course will familiarize the student with basic knowledge about methodology of exercise testing and exercise prescription. Specific emphasis will be placed on knowledge pertaining to ACSM Health Fitness Instructor certification and the Cooper Institute Special Populations Specialty Certification.

**KINS 4933 – Internships for Exercise Science****Graduate - Texas Woman's University:**

KINS 5583 – Hormonal Responses to Exercise (Guest lecturer, Spring 2008)

**Undergraduate - University of Houston:**

PEB 1101 – Role of Exercise and Fitness on Health

**KIN 4307 – Exercise Testing and Laboratory (including ECG interpretation).**

Review the body of knowledge associated with: evaluation of health status, pathophysiology/risk factors associated with exercise appraisal and fitness testing, electrocardiology interpretation, pharmacologic drugs and effects on exercise performance, emergence procedures and laboratory safety, and diagnostic and prognostic value of exercise testing. Acquaint students with the laboratory techniques and instrumentation associated with the scientific process of exercise testing, interpretation, and prescription.

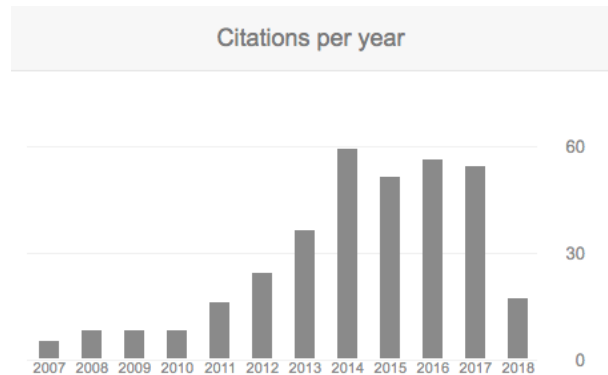
**KIN 3306 – Exercise Physiology Laboratory**

This course is designed to provide introductory knowledge and experience in collecting and analyzing applied physiological data, specifically the quantitative descriptors of the human response to physical work (i.e., exercise). The course material is presented with a specific application to concepts in the measurement techniques typically utilized in an academic/research exercise physiology laboratory.

## SCHOLARSHIP

**Summary***h*-index: 8*i*10-index: 8

Research gate score: 34.27

**Peer-Reviewed Publications**

1. Witt, K., Sandoval, K., **Wooten, J.S.**, Harris, M., Schaller, M., & Umbaugh, D. (2018). Mfsd2a and Glut1 brain nutrient transporters altered with 32-week low and high lard vs. fish-oil dietary treatment in C57Bl/6 mice. *Current Developments in Nutrition*, In Press.
2. **Wooten, J.S.**, Nick, T.N., Seija, A., Poole, K.E., & Stout, K.B. (2016). High-fructose intake impairs the hepatic hypolipidemic effects of a high-fat fish-oil diet. *Journal of Clinical and Experimental Hepatology*, 6(4), 265-274.
3. Rivas, E., **Wooten, J.S.**, Newmire, D., & Ben-Ezra, V. (2016). Omega-3 fatty acid supplementation combined with acute aerobic exercise does not alter the improved post-exercise insulin response in normoglycemic, inactive and overweight men. *European Journal of Applied Physiology*, 116(6), 1255-65.
4. Johns, M., Fyalka, R., Shea, J.A., Neumann, W.L., Rausaria, S., Msengi, E.N. Imani-Nejad, M., Zollars, H., McPherson, T., Schober, J., **Wooten, J.S.**, & Kwon, G. (2015). SR-135, a peroxynitrite decomposition catalyst, enhances beta-cell function and survival in B6D2F1 mice fed a high fat diet. *Archives of Biochemistry and Biophysics*, 577-578, 49-59.
5. Gapin, J., Labban, J., Bohall, S.C., **Wooten, J.S.**, & Chang, Y.C. (2015). Acute exercise is associated with specific executive functions in college students with ADHD: A preliminary Study. *Journal of Sport and Health Sciences*, 4, 89-96.
6. **Wooten, J.S.**, Wu, H., Raya, J., Mansoori, A., Perrard, X.D., Perrard, J., & Hoogeveen, R.C. (2014). The influence of an obesity-induced diet on oxysterol metabolism in C57BL/6J mice. *Cholesterol*: 843468.
7. Herrick, J.E., Kirk, E.P. Holly, M.R., Smith, B.S., & **Wooten, J.S.** (2014). Diastolic blood pressure is predictive of an elevated ventilator efficiency slope in at-risk middle-aged obese adults that are asymptomatic for cardiovascular disease. *Journal of Cardiovascular Disease Research*, 5(1), 7-14.
8. **Wooten, J.S.**, Gillard, B.K., Nambi, P., Pownall, H.J., Scott, L.W., Ballantyne, C.M., Smith, E.O., Nambi, V., Coraza, I., & Balasubramanyam, A. (2013). Intensive lifestyle modification reduces Lp-PLA<sub>2</sub> in dyslipidemic HIV/HAART patients. *Medicine and Science in Sports and Exercise*, 45(6), 1043-1050.

9. Phillips, M.D., Patrizi, R.M., Cheek, D.J., **Wooten, J.S.**, Barbee, J.J., & Mitchell, J.B. (2012). Whole body resistance training reduces subclinical inflammation in obese, postmenopausal women without fat mass loss. *Medicine and Science in Sports and Exercise*, 44(11), 2099-2110.
10. **Wooten, J.S.**, Biggerstaff, K.D. & Ben-Ezra, V. (2011). A Single 1-hr session of moderate-intensity aerobic exercise does not modify lipids and lipoproteins in normolipidemic obese women. *Applied Physiology, Nutrition, and Metabolism*, 36(5), 715-722.
11. **Wooten, J.S.**, Phillips, M.D., Mitchell, J.B., Patrizi, R., Pleasant, R.N., Hein, R.M., Menzies, R.D., & Barbee, J.J. (2011). Resistance exercise and lipoproteins in postmenopausal women. *International Journal of Sports Medicine*, 32, 7-13.
12. **Wooten, J.S.**, Biggerstaff, K.D., & Ben-Ezra, V. (2009). Responses of LDL and HDL particle size and distribution to omega-3 fatty acid supplementation and aerobic exercise. *Journal of Applied Physiology*, 107, 794-800.
13. **Wooten, J.S.**, Biggerstaff, K.D., & Anderson, C.E. (2008). Response of lipid, lipoprotein-cholesterol, and electrophoretic characteristics of lipoproteins following a single bout of aerobic exercise in women. *European Journal of Applied Physiology*, 104, 19-27.
14. Biggerstaff, K.D., & **Wooten, J.S.** (2004). Understanding lipoproteins as transporters of cholesterol and other lipids. *Advances in Physiology Education*, 28, 105-106.

### Book Chapters

1. Biggerstaff, K.D., & Wooten, J.S. (2009). Hyperlipidemia and Dyslipidemia, In Ehrman, J., Gordon, P., Visich, P. & Keteyian, S. (Eds.), *Clinical Exercise Physiology*. Champaign, IL: Human Kinetics.

### Manuscripts in Review

1. **Wooten J.S.**, Poole, K.E., Harris, M.P., Guilford, B., Umbaugh, D., & Seija, A. (2018). Effects of voluntary wheel running during weight-loss on markers of non-alcoholic steatohepatitis in C57Bl/6 Mice. *Applied Physiology, Nutrition, and Metabolism*, Submitted August 2018.
2. **Wooten, J.S.**, Webb, B.L., DiMarco, N.M., Nichols, D.L., & Sanborn, C.B. (2018). Influence of menopausal status and body composition distribution on lipids and lipoproteins in women who are normal-weight obese women: The Pioneer Project. *Maturitas*, Submitted October 2018.

### Manuscripts in Progress

1. **Wooten, J.S.**, Stout, K.B., Nick, T.N., Harris, M.P., & Seija, S. (2018). High-fructose consumption during weight loss delays hepatic lipid clearance and promotes hepatic inflammation.
2. **Wooten, J.S.**, Harris, M.P., Seija, A., Hartke, R., Breden, M., & Poole, K.E. (2018). The effects of physical activity on markers of hepatic lipid metabolism during weight cycling.

3. **Wooten, J.S.**, Breden, M., Smith, B.K., Harris, M.P., Burgess, B., Gloeckner, A., & Phillips, M.D. (2019). The relationship of visceral adipose tissue with markers of energy homeostasis following weight-loss.
4. **Wooten, J.S.**, Harris, M.P., Sandoval, K.E., Schaller, M.L., & Witt, K.A. (2019). The effects of an obesogenic diet on hepatic autophagy in age-accelerated SAMP8 mice.

### **Abstracts & Presentations at Professional Meetings**

#### **2018**

1. Kamm, D.R., Schaller, M.L., Harris, M.P., Witt, K.A., Sandoval, K.E., & Wooten, J.S. High-fat high-fructose diet and sex differences induce alteration in markers of blood brain barrier integrity in age-accelerated mice. *Presented at the annual meeting of the American College of Sports Medicine – Texas Chapter* (March 1-2, 2018).
2. Umbaugh, D.S., Schaller, M.L., Harris, M.P., Wooten, J.S., Sandoval, K.E., & Witt, K.A. (2018). Western versus omega-3 based diets differentially alter key brain fatty acid transport genes. *Presented at the annual meeting of Experimental Biology* (April 21-25, 2018).
3. Nimmer, J.N., Maciejewski, J.C., Umbaugh, D.S., Schaller, M.L., Harris, M.P., Sandoval, K.E., Witt, Wooten, J.S., & Guilford, B.L. (2018). Omega-3 fatty acids prevent mechanical hypersensitivity but do not alter nerve fiber density in a high fat-fed murine model of prediabetic neuropathy. *Presented at the annual meeting of Experimental Biology* (April 21-25, 2018).
4. Reller, A.M., Umbaugh, D.S., Schaller, M.L., Maciejewski, J.C., Wooten, J.S., and Guilford, B.L. (2018). Early neuronal inflammation may be a contributing factor to changes in epidermal innervation associated with neuropathy in prediabetic mice. *Presented at the annual meeting of Experimental Biology* (April 21-25, 2018).
5. Gagen, A.N., Schaller, M.L., Maciejewski, J.C., Sandoval, K.E., Witt, K.A., Wooten, J.S., & Guilford, B.L. (2018). Do omega-3 fatty acids prevent the development of non-alcoholic fatty liver disease? *Presented at the annual meeting of Experimental Biology* (April 21-25, 2018).
6. Kamm, D.R., Schaller, M.L., Umbaugh, D., Altenburg, H.M., Harris, M.P., Sandoval, K.E., Witt, K.A., & Wooten, J.S. Effects of fish-oils on markers of hepatic steatosis and cholesterol homeostasis in C57Bl/6 mice. *Presented at the annual meeting of Experimental Biology* (April 21-25, 2018).
7. Schaller, M.L., Kamm, D.R., Harris, M.P., Witt, K.A., Sandoval, K.E., & Wooten, J.S. (2018). Fish-oils protect against hepatic inflammation following LPS stimulation. *Submitted for øat the annual meeting of the American College of Sports Medicine – Texas Chapter* (March 1-2, 2018).
8. Wooten J.S., Poole, K.E., Harris, M.P., Guilford, B., Umbaugh, D., & Seija, A. (2018). Effects of exercise on markers of steatohepatitis during weight-loss in C57Bl/6 mice. *Presented at the annual meeting of Experimental Biology* (April 21-25, 2018).



**2017**

9. Sandoval, K.E., Wooten, J.S., Harris, M.P., Schaller, M.L., & Witt, K.A. (2017). Impact of Western versus omega-3 based diets on expression of Mfsd2a. *Presented at the Society for Neuroscience Conference (November, 2017).*
10. Witt, K.A., Wooten, J.S., Harris, M.P., Schaller, M.L., & Sandoval, K.E. (2017). Impact of Western versus omega-3 based diets on expression of Mfsd2a. *Presented at the Society for Neuroscience Conference (November, 2017).*
11. Kamm, D.R., Schaller, M.L., Harris, M.P., Witt, K.A., Sandoval, K.E., & Wooten, J.S. (2017). Dietary enrichment of fish-oils attenuates diet-induced obesity and hepatic steatosis. *Presented at the annual meeting of the American College of Sports Medicine – Texas Chapter (February 16-17, 2017).*
12. Breden, M., Smith, B.K., Harris, M.P., Burgess, B., Gloeckner, A., Phillips, M.D., & Wooten, J.S. (2017). The relationship of visceral adipose tissue with markers of energy homeostasis following weight-loss. *Presented at the annual meeting of the American College of Sports Medicine – Texas Chapter (February 16-17, 2017).*
13. Wooten, J.S., Webb, B.L., DiMarco, N.M., Nichols, D.L., & Sanborn, C.B. (2017). Influence of menopause and fat mass distribution on lipids and lipoproteins in normal-weight obese women. *Accepted for presentation at the annual meeting of the American College of Sports Medicine (May 30-June 3, 2017).*
14. Harris, M.P., Schaller, M.L., Umbaugh, D., Sandoval, K.E., Witt, K.A., & Wooten, J.S. (2017). The effect of a Western diet on hepatic autophagy in age accelerated SAMP8 mice. *Presented at the annual meeting of the American College of Sports Medicine – Texas Chapter (February 16-17, 2017). Presented at the annual meeting of Experimental Biology (April 22-26, 2017). Accepted for presentation at the annual meeting of the American College of Sports Medicine (May 30-June 3, 2017).*
15. Schaller, M.L., Harris, M.P., Kamm, D., Smith, S. Sandoval, K.E., Witt, K.A., & Wooten, J.S. (2017). Fish-oils increase BAMBI expression to protect against fibrotic activity in LPS stimulated hepatic tissue. *Presented at the annual meeting of the American College of Sports Medicine – Texas Chapter (February 16-17, 2017). Presented at the annual meeting of Experimental Biology (April 22-26, 2017). Accepted for presentation at the annual meeting of the American College of Sports Medicine (May 30-June 3, 2017).*
16. Maciejewski, J.C., Harris, M.P., Schaller, M.L., Sandoval, K.E., Witt, K.A., Wooten, J.S., & Guilford, B.L. (2017). Omega-3 fatty acids therapeutic potential in the development of neuropathy. *Presented at the annual meeting of the American College of Sports Medicine – Texas Chapter (February 16-17, 2017). Presented at the annual meeting of Experimental Biology (April 22-26, 2017). Accepted for presentation at the annual meeting of the American College of Sports Medicine (May 30-June 3, 2017).*
17. Rosa-Caldwell, M.E., Harris, M.P., Lee, D.E., Brown, J.L., Poole, K.E., Seija, A., Brown, L.A., Perry, R.A., Washington, T.A., Wooten, J.S., & Greene, N.P. (2017). Mitophagy regulation after diet and exercise in non-alcoholic fatty liver disease. *Presented at the annual meeting of Experimental Biology (April 22-26, 2017).*

**2016**

18. Harris, M.P., Seija, A., Hartke, R., Breden, M., Poole, K.E., & Wooten, J.S. (2016). The effects of physical activity on markers of hepatic lipid metabolism during weight cycling. *Medicine and Science in Sports and Exercise*, 48(5). Presented at the annual meeting of the American College of Sports Medicine (May 26-30, 2016). Presented at the annual meeting of the American College of Sports Medicine – Texas Chapter (March 3-4, 2016).
19. Wooten, J.S., Stout, K.B., Nick, T.N., Harris, M.P., & Seija, A. (2016). High-fructose consumption during weight loss delays hepatic lipid clearance and promotes hepatic inflammation. *Medicine and Science in Sports and Exercise*, 48(5). Presented at the annual meeting of the American College of Sports Medicine (May 26-30, 2016).
20. Breden, M., Smith, B.K., Harris, M.P., Gloeckner, A., Burgess, B., Phillips, M.D., & Wooten, J.S. (2016). The effect of gender on circulating adipokines during weight loss and weight maintenance. Presented at the annual meeting of the American College of Sports Medicine – Texas Chapter (March 3-4, 2016).
21. Hartke, R.E., Harris, M.P., Breden, M., Poole, K.E., Seija, A., & Wooten, J.S. (2016). The effects of physical activity on markers of adipose inflammation during weight cycling. Presented at the annual meeting of the American College of Sports Medicine – Texas Chapter (March 3-4, 2016).
22. Rosa, M.E., Harris, M.P., Lee, D.E., Brown, J.L., Poole, K.E., Seija, A., Brown, L.A., Perry, R.A., Washington, T.A., Wooten, J.S. & Greene, N.P. (2015/2016). Autophagy regulation after diet and physically activity in non-alcoholic fatty liver disease. *Medicine and Science in Sports and Exercise*, 48(5). Presented at the annual meeting of the Central States American College of Sports Medicine – Central States Chapter. Presented at the annual meeting of the American College of Sports Medicine (May 26-30, 2016). (Shared PI with N.P.G.)

**2015**

23. Wooten, J.S., Nick, T.N., Seija, A., Poole, K.E., & Stout, K.B. (2015). High-fructose intake reverses the hepatic hypolipidemic effects of a high-fat fish-oil diet. *Medicine and Science in Sports and Exercise*, 47(5), S358. Presented at the annual meeting of the American College of Sports Medicine (May 26-30, 2015).
24. Witt K.A., Farr S.A., Crider A.M., Wooten, J.S., & Sandoval K.E. (2015). Somatostatin receptor subtype-4 agonist enhances memory in Apo-E4 knock-in mice. Presented at the annual meeting of the Experimental Biology (March 28-April 1, 2015).
25. Seija, A., Poole, K.E., Harris, M., Eck, K., Hartke, R. Breden, M., & Wooten, J.S. (2015). The effects of physical activity on hepatic inflammation during weight-loss. Presented at the annual meeting of the American College of Sports Medicine – Texas Chapter (February 26-27, 2015).
26. Poole, K.E., Seija, A., Harris, M., Eck, K., Hartke, R. Breden, M., & Wooten, J.S. (2015). The effects of physical activity on hepatic lipid metabolism during weight-loss. Presented at the annual meeting of the American College of Sports Medicine – Texas Chapter (February 26-27, 2015).

**2014**

27. Wooten, J.S., Nick, T.N., Stout, K.B., Peters, R.L., & Stout, J.J. (2014). A high-fat Menhaden oil enriched diet does not prevent metabolic cardiomyopathy. *Medicine and Science in Sports and Exercise*, 46(5), S277. Presented at the annual meeting of the American College of Sports Medicine (May 28-31, 2014).
28. Nick, T.N., Stout, K.B., Peters, R.L., & Stout, J.J., & Wooten, J.S. (2014). Independent and combined effects of Menhaden oil and high fructose on hepatic lipid metabolism. *Medicine and Science in Sports and Exercise*, 46(5), S277-S278. Presented at the annual meeting of the American College of Sports Medicine (May 28-31, 2014) and the annual meeting of the American College of Sports Medicine – Texas Chapter (February 28-March 1, 2014).
29. Stout, K.B., Nick, T.N., Peters, R.L., & Stout, J.J., & Wooten, J.S. (2014). The lipogenic effect of high-fructose consumption on NAFLD during weight loss. *Medicine and Science in Sports and Exercise*, 46(5), S275. Presented at the annual meeting of the American College of Sports Medicine (May 28-31, 2014) and the annual meeting of the American College of Sports Medicine – Texas Chapter (February 28-March 1, 2014).
30. Gollie, J.M., Popkess, A.K., Panza, G.S., Wooten, J.S., & Herrick, J.E. (2014). Calorie matching prior to resistance training prevents post-exercise increases in glucagon-like peptide-1 in females. *Medicine and Science in Sports and Exercise*, 46(5), S484. Presented at the annual meeting of the American College of Sports Medicine (May 28-31, 2014).

**2013**

31. Yoder, A.A., Wooten, J.S., Witt, K.A., Kwon, G., Sandoval, K., Orris, C.M., & Stout, J.J. (2013). Effects of human apolipoprotein E3 and E4 genotypes on cardiometabolic disease risk. Presented at the annual meeting of the American College of Sports Medicine – Texas Chapter (February 28-March 1, 2013).
32. Wooten, J.S., Yoder, A.A., Witt, K.A., Kwon, G., Sandoval, K., Orris, C.M., & Stout, J.J. (2013). Effects of human apolipoprotein E3 and E4 genotypes on cardiometabolic disease risk. *Medicine and Science in Sports and Exercise*, 45(5), S2736. Presented at the annual meeting of the American College of Sports Medicine (May 29-June 1, 2013).
33. Stout, J.J., Wooten, J.S., Smith, B., Orris, C.M., Yoder, A.A., Graham, B., & Kirk, E. (2013). Effects of weight loss and maintenance on hormones associated with hunger and satiety. *Medicine and Science in Sports and Exercise*, 45(5), S173. Presented at the annual meeting of the American College of Sports Medicine (May 29-June 1, 2013).
34. Gapin, J.I., Wooten, J.S., Bohall, S.H., Stout, J.J., Smith, B., & Kirk, E. (2013). Associations between cognition, weight loss, and BDNF following exercise training in overweight and obese adults. *Medicine and Science in Sports and Exercise*, 45(5), S2381. Presented at the annual meeting of the American College of Sports Medicine (May 29-June 1, 2013).

**2012**

35. Johns, M., Vernier, S., Patel, B., Brenegen, T., Neumann, W.L., Wooten, J.S., & Kwon, G. (2012). SR-135, a peroxyxynitrite decomposing catalyst, prevents weight gain and reduces fasting blood glucose levels in B6D2F1 mice fed with a high-fat diet. Presented at the annual meeting of the American Diabetes Association (June 8-12, 2012).

36. Chapman, K.S., Wooten, J.S., Nambi, P., Gillard, B.K., Nambi, V., Pownall, H.P., Scott, L.W., Ballantyne, C.M., Coraza, I., & Balasubramanyam, A. (2012). Intensive lifestyle modifications reduce Lp-PLA<sub>2</sub> mass in patients with HIV-associated dyslipidemia. *Medicine and Science in Sports and Exercise*, 44(5), S1345. Presented at the annual meeting of the American College of Sports Medicine (May 29-June 2, 2012).

#### 2011

37. Wooten, J.S., Wu, H., Raya, J., Mansoori, A., Perrard, X.D., Perrard, J., & Hoogeveen, R.C. (2011). The effects of an obesogenic diet on liver oxysterol metabolism in C57BL/6J mice. *Medicine and Science in Sports and Exercise*, 43(5), S815. Presented at the annual meeting of the American College of Sports Medicine (May 31-June 4, 2011) and at the annual meeting of the American College of Sports Medicine, Texas Chapter (February 23-24, 2011).

#### 2010

38. Hoogeveen, R.C., Raya, J.L., Wooten, J.S., Tang, R., Chambless, L.E., Boerwinkle, E., & Ballantyne, C.M. (2010). Relationship between circulating levels of oxysterols and carotid artery characteristics: the ARIC Carotid MRI Study. Presented at the annual meeting of Arteriosclerosis, Thrombosis and Vascular Biology 2010 Scientific Sessions (April 8-10, 2010).
39. Wooten, J.S., Wu, H., Mansoori, A., Raya, J. & Hoogeveen, R.C. (2010). The influence of a high fat and cholesterol diet on oxysterols in C57BL/6J mouse plasma and adipose tissue. Presented at the annual meeting of Arteriosclerosis, Thrombosis and Vascular Biology 2010 Scientific Sessions (April 8-10, 2010).

#### 2009

40. Pleasant, R., Villarreal, M., Wooten, J.S., Hein, R.M., Menzies, R.D., & Philips, M. (2009). Responses of lipids and lipoproteins following acute and training resistance exercise in obese postmenopausal women. *Medicine and Science in Sports and Exercise*, 41(5), S487-8. Presented at the annual meeting of the American College of Sports Medicine (May 27-30, 2009) and at the annual meeting of the American College of Sports Medicine, Texas Chapter (February 27-28, 2009).
41. Villarreal, M., Pleasant, R., DiMarco, N.M., Sanborn, B.C., & Wooten, J.S. (2009). Influence of menopausal status on lipids and lipoproteins and fat mass distribution: the Pioneer Project. *Medicine and Science in Sports and Exercise*, 41(5), S401. Presented at the annual meeting of the American College of Sports Medicine (May 27-30, 2009) and at the annual meeting of the American College of Sports Medicine, Texas Chapter (February 27-28, 2009).

#### 2008

42. Wooten, J.S., FitzGerald, Y., Villarreal, M., Biggerstaff, K.D., & Ben-Ezra, V. (2008). Acute response of lipid and lipoprotein metabolism following aerobic exercise in women who are obese. *Medicine and Science in Sports and Exercise*, 40(5), S57. Presented at the annual meeting of the American College of Sports Medicine (May 28 – May 31, 2008) and at the annual meeting of the American College of Sports Medicine, Texas Chapter (February 29 – March 1, 2008).
43. Witt, J., Wooten, J.S., & DiMarco, N. (2008). Effect of Lifewave patches on fat metabolism in moderately active women. *Medicine and Science in Sports and Exercise*, 40(5), S327.

*Presented at the annual meeting of the American College of Sports Medicine (May 28 – May 31, 2008) and at the annual meeting of the American College of Sports Medicine, Texas Chapter (March 1 – 2, 2007).*

44. Villarreal, M., Wooten, J.S., Black, L., Lubwama, L., Biggerstaff, K. & Ben-Ezra, V. (2008). Association of abdominal and hip fat mass with markers for CHD in obese women. *Presented at the annual meeting of the American College of Sports Medicine, Texas Chapter (February 29 – March 1, 2008).*

## 2006

45. Wooten, J.S., Biggerstaff, K.D., & Ben-Ezra, V. (2006). Response of lipoprotein particle diameters and distributions following aerobic exercise and omega-3 fatty acid supplementation. *Medicine and Science in Sports and Exercise*, 38(5), S46. *Presented at the annual meeting of the American College of Sports Medicine (May 31 – June 4, 2006) and at the annual meeting of the American College of Sports Medicine, Texas Chapter (February 24 – 25, 2006).*
46. Lehrer, M., Rowe, J.R., Wooten, J.S., Casebolt, J.B., FitzGerald, Y., Kwon, Y.H., & Biggerstaff, K.D. (2006). Effect of a twelve-month walking program on blood lipids and lipoproteins in older adults. *Medicine and Science in Sports and Exercise*, 38(5), S331. *Presented at the annual meeting of the American College of Sports Medicine (May 31 – June 4, 2006) and at the annual meeting of the American College of Sports Medicine, Texas Chapter (February 24 – 25, 2006).*

## 2005

47. Biggerstaff, K.D., Wooten, J.S., & Anderson, C.E. (2005). Response of lipids and lipoproteins to multiple exercise sessions in women. *Presented at the annual meeting of the American Alliance for Health, Physical Education, Recreation, and Dance (April 1 – 4, 2005).*
48. Lehrer, M., Wooten, J.S., Rowe, J.R., Casebolt, J.B., Kwon, Y.H., & Biggerstaff, K.D. (2005). Effect of a three-month walking program on blood lipids in older adults. *Presented at the annual meeting of the American College of Sports Medicine, Texas Chapter (March 4 – 5, 2005).*
49. Wooten, J.S., Biggerstaff, K.D., & Anderson, C.E. (2005). Acute response of lipoprotein particle diameters following aerobic exercise in women. *Medicine and Science in Sports and Exercise*, 37(5), S275. *Presented at the annual meeting of the American College of Sports Medicine (June 1 – 4, 2005).*
50. Wooten, J.S., Biggerstaff, K.D., & Anderson, C.E. (2005). Response of lipoprotein particle diameters following aerobic exercise and omega-3 fatty acid supplementation. *Presented at the annual meeting of the American College of Sports Medicine, Texas Chapter (March 4 – 5, 2005).*

## 2004

51. Ben-Ezra, V., Clark, S.J., Wooten, J.S., Biggerstaff, K.D., & Nichols, D.L. (2004). The independent and combined effects of n-3 polyunsaturated fatty acids and exercise on insulin responses. *Medicine and Science in Sports and Exercise*, 36(5), S173. *Presented at the annual meeting of the American College of Sports Medicine (June 2 – June 5, 2004).*

52. Biggerstaff, K.D., Clark, S.J., Wooten, J.S., Alhassan, S., Plaisance, E.P., Ben-Ezra, V., Taylor, K., & Grandjean, P.W. (2004). Acute insulin response following exercise and relationship to lipid changes in sedentary African-American Women. *Medicine and Science in Sports and Exercise*, 36(5), S19. *Presented at the annual meeting of the American College of Sports Medicine (June 2 – June 5, 2004).*
53. Clark, S.J., Wooten, J.S., Alhassan, S., Plaisance, E.P., Ben-Ezra, V., Taylor, K., Biggerstaff, K.D., & Grandjean, P.W. (2004). Acute insulin responses following exercise and relationship to lipid changes. *Medicine and Science in Sports and Exercise*, 36(5), S20. *Presented at the annual meeting of the American College of Sports Medicine (June 2 – June 5, 2004) and at the annual meeting of the American College of Sports Medicine, Texas Chapter (February 27 – 28, 2004).*
54. Wooten, J.S., Biggerstaff, K.D., Ben-Ezra, V., Clark, S.J., Hammer, S., & Greenwich, A. (2004). Independent and combined effects of aerobic exercise and omega-3 fatty acids on lipid and lipoproteins. *Medicine and Science in Sports and Exercise*, 36(5), S219. *Presented at the annual meeting of the American College of Sports Medicine (June 2 – June 5, 2004) and at the annual meeting of the American College of Sports Medicine, Texas Chapter (February 27 – 28, 2004).*

### 2003

55. Wooten, J.S., Hook, C.P., Henderson, C.L., Groves, A.D., Hartman, C., Anderson, C., & Biggerstaff, K.D. (2003). Acute response of lipid and lipoprotein concentrations following treadmill and circuit resistance exercise. *Medicine and Science in Sports and Exercise*, 35(5), S86. *Presented at the annual meeting of the American College of Sports Medicine (May 28 – June 1, 2003) and at the annual meeting of the American College of Sports Medicine, Texas Chapter (March 7 – 8, 2003).*

### 2002

56. Bennett, C., Biggerstaff, K.D., Kinser, K.D., & Wooten, J.S. (2002). Response of serum lipids and lipoproteins to exercise of differing intensities. *Presented at the annual meeting of the American College of Sports Medicine, Texas Chapter (February 23 – 25, 2002).*
57. Biggerstaff, K.D., Kinser, K.D., & Wooten, J.S. (2002). Response of serum lipids and lipoproteins to exercise of differing intensities. *Medicine and Science in Sports and Exercise*, 34(5), S276. *Presented at the annual meeting of the American College of Sports Medicine (June 2 – 5, 2002).*
58. Wooten, J.S., & Meyers, M.C. (2002). Anthropometric, cardiorespiratory, and anaerobic response to training in division-I collegiate female volleyball players. *Presented at the annual meeting of the Texas Alliance for Health, Physical Education, Recreation, and Dance (December 4 – 7, 2002).*
59. Wooten, J.S., Meyers, M.C., Woods, W., Fincher, A.L., & O'Connor, D. (2002). Pain coping responses of patients following anterior cruciate ligament reconstruction and rehabilitation. *Medicine and Science in Sports and Exercise*, 34(5), S906. *Presented at the annual meeting of the American College of Sports Medicine (June 2 – 5, 2002) and at the annual meeting of the American College of Sports Medicine, Texas Chapter (February 23 – 25, 2002).*

**2001**

60. Wooten, J.S., Meyers, M.C., Zhang, J.H., Fincher, A.L., Bloom, J.A., & Woods, W. (2001). The effect of anterior cruciate ligament reconstruction on pain coping styles. *Medicine and Science in Sports and Exercise*, 33(5), S951. Presented at the annual meeting of the American College of Sports Medicine (June 2 – 5, 2001) and at the annual meeting of the American College of Sports Medicine, Texas Chapter (February 23 – 24, 2001).

**2000**

61. Palma, R., Meyers, M.C., & Wooten, J.S. (2000). Athletic coping skills, pain coping responses, and mood states of national level Kali-Silat (Stick-Fighting) competitors. *Medicine and Science in Sports and Exercise*, 32(5), S403. Presented at the annual meeting of the American College of Sports Medicine (June 2 – 5, 2000) and at the annual meeting of the American College of Sports Medicine, Texas Chapter (February 11 – 12, 2000).
62. Wooten, J.S., & Meyers, M.C. (2000). Differences in anthropometry, muscular endurance, and anaerobic power among collegiate females in various sports. Presented at the annual meeting of the Texas Alliance for Health, Physical Education, Recreation, and Dance (December 1 – 3, 2000).
63. Wooten, J.S., Ryan, N.D., Meyers, M.C., Mâsse, L.C., Tortolero, S.R., Kohl, H.W., & Jackson, A.S. (2000). Measured vs. estimated resting metabolic rate in middle and older age Latina women. *Medicine and Science in Sports and Exercise*, 32(5), S1086. Presented at the annual meeting of the American College of Sports Medicine (June 2 – 5, 2000) and at the annual meeting of the American College of Sports Medicine, Texas Chapter (February 11 – 12, 2000).

**1999**

64. Ewing, C., Bloom, J., Meyers, M.C., Encarnacion, M.G., Ryan, N.D., & Wooten, J.S. (1999). Upper body strength and joint range of motion of elite, adolescent tae kwon do athletes. *Medicine and Science in Sports and Exercise*, 31(5), S750. Presented at the annual meeting of the American College of Sports Medicine (June 3 – 6, 1999) and at the annual meeting of the American College of Sports Medicine, Texas Chapter (February 26 – 27, 1999).
65. Valez, D.M., Meyers, M.C., Encarnacion, M.G., Ryan, N.D., & Wooten, J.S. (1999). Athletic coping skills and mood states of elite, adolescent tae kwon do athletes. *Medicine and Science in Sports and Exercise*, 31(5), S1015. Presented at the annual meeting of the American College of Sports Medicine (June 3 – 6, 1999) and at the annual meeting of the American College of Sports Medicine, Texas Chapter (February 26 – 27, 1999).
66. Wooten, J.S., Meyers, M.C., Smith, D.W., Ryan, N.D., & Encarnacion, M.G. (1999). Exercise performance and anthropometric status of elite, adolescent tae kwon do athletes. *Medicine and Science in Sports and Exercise*, 31(5), S749. Presented at the annual meeting of the American College of Sports Medicine (June 3 – 6, 1999) and at the annual meeting of the American College of Sports Medicine, Texas Chapter (February 26 – 27, 1999).

**1998**

67. Encarnacion, M.G., Meyers, M.C., Bloom, J., Ryan, N.D., & Wooten, J.S. (1998). Upper body strength and joint range of motion of collegiate male golfers. *Medicine and Science in Sports and Exercise*, 30(5), S1362. Presented at the annual meeting of the American College of Sports Medicine (June 3 – 6, 1998) and at the annual meeting of the American College of Sports Medicine, Texas Chapter (February 27 – 29, 1998).

68. Ryan, N.D., Meyers, M.C., Encarnacion, M.G., Bloom, J., & Wooten, J.S. (1998). Exercise performance of collegiate male golfers. *Medicine and Science in Sports and Exercise*, 30(5), S789. Presented at the annual meeting of the American College of Sports Medicine (June 3 – 6, 1998) and at the annual meeting of the American College of Sports Medicine, Texas Chapter (February 27 – 29, 1998).
69. Wooten, J.S., Ryan, N.D. Meyers, M.C., & Tate, A.L. (1998). Exercise performance of Indonesian national track and field athletes. *Medicine and Science in Sports and Exercise*, 30(5), S1364. Presented at the annual meeting of the American College of Sports Medicine (June 3 – 6, 1998) and at the annual meeting of the American College of Sports Medicine, Texas Chapter (February 27 – 29, 1998).

## Research Support

### Current

Wooten, J.S. (PI) 7/1/2018 – 6/30/2019 \$16,000  
 Seed Grants for Translational and Exploratory Projects (STEP), Southern Illinois University  
 Edwardsville  
 Role of AMPK activation on hepatic cholesterol homeostasis and BAMBI induction.

### Completed

#### Internal Awards

Wooten, J.S. (PI) \$1,000  
 Dean's Grant for Research Enhancement (Summer 2018), Southern Illinois University  
 Edwardsville  
 The effect of fish-oils on BAMBI activity in a model of non-alcoholic steatohepatitis.

Wooten, J.S. (PI) \$41,961  
 Research Equipment and Tools (RET) Award, Southern Illinois University Edwardsville  
 Equipment to Support Exercise Physiology Laboratory in the Department of Applied Health

Kirk, E.P. (PI) \$31,162  
 Research Equipment and Tools (RET) Award, Southern Illinois University Edwardsville  
 Equipment to Support Exercise Physiology Laboratory in the Department of Applied Health  
 Role: Co-I

Wooten, J.S. (PI) 5/15/2017 – 6/30/2017 \$51,695  
 Research Equipment and Tools (RET) Award, Southern Illinois University Edwardsville  
 Equipment to Support Exercise Physiology Laboratory in the Department of Applied Health

Kirk, E.P. (PI) 5/15/2017 – 6/30/2017 \$16,310  
 Research Equipment and Tools (RET) Award, Southern Illinois University Edwardsville  
 Equipment to Support Exercise Physiology Laboratory in the Department of Applied Health  
 Role: Co-I

Wooten, J.S. (PI) 5/15/2016 – 6/30/2016 \$42,586  
 Research Equipment and Tools (RET) Award, Southern Illinois University Edwardsville  
 Equipment to Support Exercise Physiology Laboratory in the Department of Applied Health



- Kirk, E.P. (PI) 5/15/2016 – 6/30/2016 \$9,750  
Research Equipment and Tools (RET) Award, Southern Illinois University Edwardsville  
Equipment to Support Exercise Physiology Laboratory in the Department of Applied Health  
Role: Co-I
- Guilford, B. (PI) 5/15/2016 – 6/30/2016 \$10,000  
Research Equipment and Tools (RET) Award, Southern Illinois University Edwardsville  
Equipment to Support Exercise Physiology Laboratory in the Department of Applied Health  
Role: Co-I
- Wooten, J.S. (PI) 7/1/2014 – 6/30/2015 \$16,000  
Seed Grants for Translational and Exploratory Projects (STEP), Southern Illinois University  
Edwardsville  
The protective role of physical activity on NAFLD during weight-cycling.
- Rosnick, C. (PI) 7/1/2014 – 6/30/2015 \$25,000  
Multidisciplinary Research Award (MRA), Southern Illinois University Edwardsville  
Impact of weight loss and cognitive training on physiological and psychological outcomes.  
Role: Key Personnel
- Wooten, J.S. (PI) 7/1/2012 – 6/30/2013 \$16,000  
Seed Grants for Translational and Exploratory Projects (STEP), Southern Illinois University  
Edwardsville  
The regulatory role of oxysterols in adipocyte inflammation and insulin resistance.
- Wooten, J.S. (PI) 5/15/2012 – 6/30/2012 \$7,419  
Research Equipment and Tools (RET) Award, Southern Illinois University Edwardsville  
Equipment to Support Exercise Physiology Laboratory in the Department of Kinesiology and  
Health Education
- Wooten, J.S. (PI) 1/15/2012 – 4/30/2012 \$1,500  
Indirect Contingency Funds, Southern Illinois University-Edwardsville, School of Education and  
Department of Kinesiology and Health Education  
Role of SR-135 on peripheral lipid deposition in high-fat fed BDF1 mice.
- Wooten, J.S. 8/15/2011 \$14,500  
Southern Illinois University Edwardsville, Department of Kinesiology and Health Education  
Start-up Research Support
- Biggerstaff, K.D. (PI) 9/1/2007 – 8/31/2008 \$6,000  
Research Enhancement Program, Texas Woman's University.  
The acute effects of aerobic exercise on lipid and lipoprotein metabolism in sedentary obese  
women.  
Role: Co-PI
- DiMarco, N.M. (PI) 6/1/2008 \$30,242  
Texas State Higher Education Funds, Texas Woman's University, Institute for Women's Health  
Research equipment for IWH clinic and biochemistry lab: metabolic cart and water purification  
system.  
Role: Co-PI

Mo, H. (PI) 6/1/2006 \$39,690  
 Texas State Higher Education Funds, Texas Woman's University, Department of Nutrition and Food Sciences and Institute for Women's Health  
 Shared research equipment for IWH and Dept. of NFS: Multi-module microplate reader and washer.  
 Role: Co-PI

**External Awards**

Witt, K.A. (PI) 7/1/2015 – 6/30/2018 \$397,375  
 R21 NS090282-01 NIH/NINDS  
 Dietary impact on blood-brain barrier tight junctions.  
 Role: Co-I (20% Effort)

Schaller, M.L. (PI) 5/2018 \$1,000  
 FASEB MARC Travel Award – Faculty/Mentor and Student Award  
 Award to support travel to the annual meeting of Experimental Biology, San Diego, CA.  
 Role: Faculty Sponsor

Kamm, D. (PI) 5/2018 \$1,000  
 FASEB MARC Travel Award – Faculty/Mentor and Student Award  
 Award to support travel to the annual meeting of Experimental Biology, San Diego, CA.  
 Role: Faculty Sponsor

Schaller, M.L. (PI) 5/2017 \$1,850  
 FASEB MARC Travel Award – Faculty/Mentor and Student Award  
 Award to support travel to the annual meeting of the American College of Sports Medicine, Denver, CO.  
 Role: Faculty Sponsor

Harris, M.P. (PI) 5/2016 \$1,800  
 FASEB MARC Travel Award – Graduate Student Presentation Award  
 Award to support travel to the annual meeting of the American College of Sports Medicine, Boston, MA.  
 Role: Faculty Sponsor

Wooten, J.S. (PI) 5/2015 \$3,700  
 FASEB MARC Travel Award – Faculty/Mentor and Student Award  
 Award to support travel to the annual meeting of the American College of Sports Medicine, San Diego, CA. (Student: Matt Harris, Graduate Student in Exercise Physiology specialization).

Poole, K. (PI) 2/2015 \$1,000  
 FASEB MARC Travel Award – Undergraduate Student Presentation Award  
 Award to support travel to the annual meeting of the Texas Chapter – American College of Sports Medicine, Austin, TX.  
 Role: Faculty Sponsor

Seja, A. (PI) 2/2015 \$1,000  
 FASEB MARC Travel Award – Undergraduate Student Presentation Award  
 Award to support travel to the annual meeting of the Texas Chapter – American College of Sports Medicine, Austin, TX.

Role: Faculty Sponsor

Morrisett, J.D. (PI) 1/1/2009 – 8/15/2011 \$129,699  
 Atherosclerosis and Vascular Biology Training Center  
 T32 HL07812-11 NIH/HL/NHLBI  
 Role: Postdoctoral Fellow

Wooten, J.S. (PI) 02/27/2004 \$500  
 Student Research Development Grant Award, Texas Chapter of the ACSM  
 Changes in lipoprotein concentration, particle size, and oxidative modification following aerobic exercise.

Wooten, J.S. (PI) 02/23/2002 \$500  
 Student Research Development Grant Award, Texas Chapter of the ACSM  
 Lipoprotein metabolism following three non-consecutive days of aerobic exercise in women.

### **Not Funded**

#### **Internal Awards**

Smith, D. (PI) \$8,370  
 Competitive Graduate Award, The Graduate School, Southern Illinois University Edwardsville  
 One-year academic support for qualified new graduate students who are accepted into degree programs at SIUE.  
 Role: Mentor

Kamm, D. (PI) \$8,370  
 Competitive Graduate Award, The Graduate School, Southern Illinois University Edwardsville  
 One-year academic support for qualified new graduate students who are accepted into degree programs at SIUE.  
 Role: Mentor

Wooten, J.S. (PI) \$12,500  
 Vaughnie Lindsay New Investigator Award, Southern Illinois University Edwardsville  
 Role of Weight Cycling on Obesity Cardiomyopathy

#### **External Awards**

Wooten, J.S. (PI) \$433,500  
 R15 DK118516 NIH/NIDDK  
 Role of AMPK activation on hepatic cholesterol homeostasis and BAMBI induction.

Guilford, B. (PI) \$25,000  
 American Pain Society  
 Do omega-3-fatty acids hold therapeutic potential for the prevention or treatment of diabetic neuropathy?  
 Role: Co-I

Wooten, J.S. (PI) \$433,235  
 R15DK116223 AREA Grant NIH/NIDDK/NHLBI/NCCIH  
 The impact of exercise on nonalcoholic steatohepatitis during weight-cycling.

<p>Guilford, B. (PI)  ACSM Foundation Grant  Do omega-3 fatty acids prevent neural inflammation associated with high fat diet induced neuropathy?  Role: Co-I</p>	\$10,000
<p>Kirk, E. (PI)  R15 AREA Grant NIH/NIDDK  The effects of two recommended levels of exercise on the prevention of weight regain.  Role: Co-I</p>	\$429,000
<p>Kirk, E. (PI)  R01 NIH/NIDDK  Exercise effects on compensatory, physiological, and behavioral changes associated with the prevention of weight regain.  Role: Co-I</p>	\$1,804,638
<p>Ross-Stewart, L. (PI)  AASP Research Grant Application  The Relationship between Psychological and Physiological Measures of Self-Efficacy, Anxiety, Exercise, and Weight Management Program Adherence.  Pole: Co-I</p>	\$5,000
<p>Wooten, J.S. (PI)  University of Michigan Regional Comprehensive Metabolomics Research Core Pilot and Feasibility Grant Program  Dietary impact of high-fat fish-oils and high-fructose on NAFLD.</p>	\$50,000
<p>Wooten, J.S. (PI)  R15HL123720 AREA Grant NIH/NHLBI/NIDDK  The role of human apolipoprotein E genotypes in obese cardiac metabolism.</p>	\$361,250
<p>Pettibone, J.C. (Co-PI)  R24 NIH-Scientific Research Network on Decision and Neuroscience and Aging Award  Exploring the Compromise and Phantom Decoy Effects in Choice Across the Lifespan  Role: Co-PI</p>	\$20,000
<p>Kirk, E. (PI)  Exercise Dose and the Pathophysiology of Nonalcoholic Fatty Liver Disease  R03 NIH/NIDDK  Role: Co-I</p>	\$143,000
<p>Wooten, J.S. (PI)  The Obesity Society – Early Career Research Grant  Oxysterols in obesity and type 2 diabetes: A potential link to atherosclerosis.</p>	\$25,000
<p>Kwon, G. (PI)  California Table Grape Commission  Effects of freeze-dried grape powder (FDGP) on preservation of insulin-secreting pancreatic <math>\beta</math>-cells in human islets and high-fat fed BDF1 mice.  Role: Co-PI</p>	\$30,000

Wooten, J.S. (PI) The Obesity Society – Early Career Research Grant Oxysterols in obesity and type 2 diabetes: A potential link to atherosclerosis.	\$25,000
DiMarco, N.M. (PI) FLOW Healthcare Foundation, Inc. Exercise and Sports Nutrition Clinic’s Wellness and Weight Management Program. Role: Co-PI	\$25,000
Wooten, J.S. (PI) Sigma Xi Scientific Research Society Grant-in-Aid of Research Program The acute effects of aerobic exercise on lipid and lipoprotein metabolism in sedentary obese women.	\$980
Wooten, J.S. (PI) Student Research Development Grant Award, Texas Chapter of the ACSM The acute effects of aerobic exercise on lipid and lipoprotein metabolism in sedentary obese women.	\$1,000
Wooten, J.S. (PI) Gatorade Sports Science Institute Student Grant Response of lipids, lipoprotein-cholesterol, and lipoprotein particle diameter and distribution following non-consecutive days of aerobic exercise in sedentary obese women.	\$3,500
Wooten, J.S. (PI) Michael L. Pollock Memorial Research Grant, Life Fitness Academy Changes in lipoprotein cholesterol concentration, particle size and oxidative modification following aerobic exercise.	\$5,000

## SERVICE

**University, School and Departmental Service*****Southern Illinois University Edwardsville***University Level Service

6/2017-present	Chair, Vivarium Space Allocation Committee, Graduate School
2/2017-6/2017	Member, Institutional Vivarium Task Force, Graduate School
9/2012-present	Member, Institutional Animal Care and Use Committee, Graduate School
8/2012-present	Mentor, Undergraduate Research and Creative Activities (URCA) Program
10/2011	Appointed Graduate I Faculty Membership

School of Education, Health and Human Behavior (SEHNB) Level Service

9/2016-12/2016	Member, Dean's Dozen Selection Committee
8/2013-7/2015	Member, Academic Affairs Committee
8/2013-7/2017	Member-Alternate, Teaching Excellence Award Committee (TEAC)
9/2011-9/2012	Member, SOE Technology Committee
8/2011-8/2013	Member-Alternate, Elections Committee

Departmental Level Service

8/2017-present	Chair, Strategic Planning Committee
10/2016-1/2017	Committee Member, Search Committee for Nutrition Faculty
10/2015-12/2015	Committee Member, Search Committee for Exercise Science Faculty
8/2015-present	Chair, Personnel Committee
10/2014-8/2017	Member, Strategic Planning Committee
1/2015-present	Faculty Advisor, Pre-Physical Therapy Association (Student Organization)
8/2014-5/2015	Chair, Search Committee for Nutrition Faculty
1/2012-5/2016	Graduate Program Coordinator for Specialization in Exercise Physiology
8/2012-7/2014	Member-At-Large, Personnel Committee
8/2012-7/2015	Chair, Academic Affairs Committee
8/2012-2/2013	Committee Member, Search Committee for Exercise Science Faculty

Ad Hoc Service

11/2017	Reviewer, SIUSM-SIUE Collaboration Support Grant (SCSG), The Graduate School, Southern Illinois University Edwardsville
11/2016	Reviewer, Seed Grants for Transitional and Exploratory Projects (STEP) Program, The Graduate School, Southern Illinois University Edwardsville
11/2016	Reviewer, SIUSM-SIUE Collaboration Support Grant (SCSG), The Graduate School, Southern Illinois University Edwardsville
11/2014	Reviewer, Seed Grants for Transitional and Exploratory Projects (STEP) Program, The Graduate School, Southern Illinois University Edwardsville

**Thesis Committees**

Dakota Kamm, *Spring 2018*

Graduate Student in Exercise Physiology

Project title: High-fat high-fructose diet and sex differences induce alteration in markers of blood brain barrier integrity in age-accelerated mice.

Role: Chair

Jaquelin Koehne, *Fall 2018*

Graduate Student in Exercise Physiology

Project title: Compensatory mechanisms to exercise induced energy deficits.

Role: Committee Member

Megan Schaller, *Spring 2018*

Graduate Student in Exercise Physiology

Project title: The effects of omega-3 fatty acids on the prevention of hepatic fibrosis using an *in situ* LPS stimulation model.

Role: Chair

Michael Martino, *Spring 2018*

Graduate Student in Exercise Physiology

Project title: The Cahill Cycle: A potential role for hepatic GPT2 in endurance exercise performance.

Role: Committee Member

Christina Hall, *Fall 2017*

Graduate Student in Exercise Physiology

Project title: The effects of weight maintenance on lipid and lipoprotein metabolism in men and women who are obese and sedentary.

Role: Chair

David Umbaugh, *Spring 2017*

Graduate Student in Exercise Physiology

Project title: Neuronal inflammation: A potential contributing mechanism to high fat diet-induced neuropathy.

Role: Committee Member

Chase Kaczmarek, *Fall 2016*

Graduate Student in Exercise Physiology

Project title: Vertical jump performance is directly correlated to fit for 90's player monitoring scores in collegiate women's volleyball.

Role: Committee member

Matt Harris, *Spring 2016*

Graduate Student in Exercise Physiology Program

Project title: The effects of physical activity on non-alcoholic fatty liver disease during weigh-cycling.

Role: Chair

Kevin Eck, *Summer 2015*

Graduate Student in Exercise Physiology

Project title: The effects of physical activity and caloric restriction on hepatic inflammation in obese, male C57BL/6 mice.

Role: Chair

Jamie Stumpf, *Spring 2015*

Graduate Student in Sport Psychology

Project title: The effect of weight-loss and physical activity on anxiety and self-efficacy.

Role: Committee member

Mike Holly, *Spring 2012*

Graduate Student in Exercise Physiology

Project title: Ventilatory efficiency is not associated with ACSM heart disease risk factors in asymptomatic obese adults

Role: Committee member

### ***Graduate Mentoring (Non-Thesis)***

Justin Stout, *Fall 2011-Summer 2013*

Graduate Student in Exercise Physiology

Project title: Effects of weight loss and maintenance on hormones associated with hunger and satiety.

Outcomes: Presented poster at the 2013 annual meeting of the American College of Sports Medicine.

### ***Undergraduate Mentoring***

*Southern Illinois University Edwardsville*

Riley Hirsch, Fall 2018-

Undergraduate Research Assistant (URCA) 8/2018-

Project title: TBD

Outcomes: TBD

Kobe Krone, Fall 2018-

Undergraduate Research Assistant (URCA) 8/2018-

Project title: TBD

Outcomes: TBD

Haylee Altenburg, *Fall 2017-*

Undergraduate Research Assistant (URCA) 8/2017-5/2018

Undergraduate Research Associate (URCA) 8/2018-5/2019

Project title: The effects of diet and sex differences on markers of liver fibrosis in senescence accelerated SAMP8 mice.

Outcomes: TBD

Dakota Kamm, *Fall 2016-Spring 2017*

Undergraduate Research Assistant (URCA)

Project title: Dietary enrichment of fish-oils attenuates diet-induced obesity and hepatic steatosis.

Outcomes: Presented poster at the 2017 annual meeting of Texas chapter of the American College of Sports Medicine. Awarded 2<sup>nd</sup> place for his research poster



presentation. Starting Summer 2017, Dakota began graduate school to earn his M.S. in Exercise Physiology at SIUE.

Dioblo Smith, *Fall 2016-Spring 2017*

Undergraduate Research Assistant (URCA)

Project title: The effect of a Western diet on hepatic lipids in age accelerated SAMP8 mice.

Outcomes: Poster presented at Graduate School Spring Symposium (April, 2017).

Starting Fall 2017, Dioblo began graduate school to earn his M.S. in Exercise Physiology at SIUE.

Rachael Hartke, *Fall 2014-Spring 2016*

Undergraduate Research Assistant (URCA)

Project title: The effects of physical activity on markers of adipose inflammation during weight cycling.

Outcomes: Presented poster at the 2016 annual meeting of Texas chapter of the American College of Sports Medicine. Awarded 2nd place for her research poster presentation. Starting Fall 2016, Rachael began graduate school to earn her degree to become a physician assistant.

Marcus Breden, *Fall 2014-Spring 2017*

Undergraduate Research Assistant (URCA)

Project title: The effect of gender on circulating adipokines during weight loss and weight maintenance. (2016); The relationship of visceral adipose tissue with markers of energy homeostasis following weight-loss. (2017).

Outcomes: Presented posters at the 2016 and 2017 annual meetings of Texas chapter of the American College of Sports Medicine. Awarded the TACSM Major of the year award in 2016. Following his graduation in May 2017, Marcus plans to start medical school in the Fall 2017 semester.

Kaylee Poole, *Spring 2014-Spring 2015*

Undergraduate Research Assistant (URCA)

Project title: The effect of physical activity on hepatic lipid and glucose metabolism during weight-loss.

Outcomes: Presented poster at the 2015 annual meeting of Texas chapter of the American College of Sports Medicine. Awarded 3rd place for her research poster presentation. Starting Fall 2015, Kaylee began graduate school to earn her doctorate in pharmacy from SIUE.

Andrew Seija, *Spring 2014-Spring 2015*

Undergraduate Research Assistant (URCA)

Project title: The effect of physical activity on hepatic inflammation during weight-loss.

Outcomes: Presented poster at the 2015 annual meeting of Texas chapter of the American College of Sports Medicine. Awarded the TACSM Major of the year award. Following graduation, Andrew completed graduate school to earn his M.S. in Exercise Physiology from SIUE in May 2017.

Tayler Nick, *Spring 2013-Spring 2014*

Undergraduate Research Assistant (URCA)

Project title: Independent and combined effects of Menhaden oil and high fructose on hepatic lipid metabolism.

Outcomes: Presented poster at the 2014 annual meeting of Texas chapter of the American College of Sports Medicine. Awarded 1st place for her research poster presentation and awarded TACSM Major of the year award. Also presented her research at the national meeting of the American College of Sports Medicine. Following graduation, Tayler completed graduate school to earn his M.S. in Exercise Physiology from SIUE in May 2016.

Kelsey Stout, *Spring 2013-Spring 2014*

Undergraduate Research Assistant (URCA)

Project title: The lipogenic effect of high-fructose consumption on NAFLD during weight loss.

Outcomes: Presented poster at the 2014 annual meeting of Texas chapter of the American College of Sports Medicine. Awarded 2nd place for her research poster presentation. Also presented her research at the national meeting of the American College of Sports Medicine. Following graduation, Kelsey went on to attend graduate school to earn her doctorate in physical therapy from Belmont University.

Robert Peters, *Fall 2013*

Undergraduate Research Assistant (URCA)

Project title: Effects of diets of high-fructose and omega-3 fatty acids on hepatic and cardiac metabolism.

Outcomes: Following graduation, Robert went on to attend graduate school to earn his doctorate in physical therapy from Bradley University.

Alissa Yoder, *Fall 2012-Spring 2013*

Undergraduate Research Assistant (URCA)

Project title: Effects of human apolipoprotein E3 and E4 genotypes on cardiometabolic disease risk.

Outcomes: Presented poster at the 2013 annual meeting of Texas chapter of the American College of Sports Medicine. Awarded 2nd place for her research poster presentation.

Christopher Orris, *Fall 2012*

Undergraduate Research Assistant (URCA)

Project title: Effects of weight loss and maintenance on plasma markers of diabetes and cardiovascular disease.

Outcomes: Following graduation Chris went on to study Chiropractic Therapy at Logan University.

Lauren Merz, *Fall 2011-Spring 2012*

Undergraduate Intern in Exercise Science Program

Project title: SR-135, a peroxyntirite decomposing catalyst, reduces post-prandial plasma lipids in B6D2F1 mice fed an obesogenic diet.

Outcomes: Poster presented at Graduate School Spring Symposium (April 9, 2012). Following graduation Lauren went on to complete her MS in Kinesiology-Exercise Physiology at SIUE.

*Texas Woman's University*

Mentoring

Ronique Pleasant, *Fall 2008*

Graduate Student in Exercise Physiology Program

Project title: Responses of lipids and lipoproteins following acute and training resistance exercise in obese postmenopausal women.

Outcomes: Presented at the 2009 annual meeting the Texas chapter and national meeting of the American College of Sports Medicine.

Melinda Villarreal, *Spring 2007-Fall 2008*

Graduate Student in Exercise and Sports Nutrition Program, 2007, 2008

Project title: Influence of menopausal status on lipids and lipoproteins and fat mass distribution: The Pioneer Project.

Outcomes: Presented at the 2009 annual meeting the Texas chapter and national meeting of the American College of Sports Medicine.

### **Professional Service**

*Editor and Reviewer for Professional Journals*

6/2013-present Associate Editor for *Health Behavior and Policy Review*

6/2013-5/2015 Reviewer for *Journal of Sports Medicine and Physical Fitness*

10/2006-present Reviewer for *American Journal of Health Behavior*

*Invited Ad Hoc Reviewer*

Nutrition Research

PLOS-One

Scientific Reports (Nature)

Medicine and Science in Sports and Exercise

Applied Physiology, Nutrition, and Metabolism

International Journal of Exercise Science

British Journal of Nutrition

Journal of Applied Physiology

International Journal of Sports Medicine

International Journal of Environmental Research and Public Health

*Professional Organizations*

4/2002-6/2004 Student Representative, American College of Sports Medicine, Student Affairs Committee

4/2002-6/2004 Board of Directors-Student Representative, Texas Chapter, American College of Sports Medicine

*Invited Presentations*

- “Non-Alcoholic Fatty Liver Disease as a Member of the Metabolic Axis of Evil: Is Fructose a Weapon of Mass Destruction?” Presented at the annual meeting of the American College of Sports Medicine – Texas Chapter, TACSM Annual Meeting, Baylor University, Waco, TX. February 17, 2017.
- “High-Fructose Consumption During Weight Loss Delays Hepatic Lipid Clearance and Promotes Hepatic Inflammation.” Presented at the School of Pharmaceutical Sciences Seminar Series, Southern Illinois University-Edwardsville, Edwardsville, IL. February 12, 2016.

- “What I Learned at the NIH Regional Conference?” Presented as part of the Graduate School Research Workshops, Southern Illinois University-Edwardsville, Edwardsville, IL. October 6, 2014.
- “Introduction to Exercise Science” Presented as part of KIN 275, Introduction to Exercise Science and Nutrition, Southern Illinois University Edwardsville, Edwardsville, IL. Semesters: Spring 2016, Summer 2016
- “Physical Activity and Aging: Physical and Psychological Benefits” Presented as part of the Life Long Learning Series, Southern Illinois University-Edwardsville, Edwardsville, IL. April 18, 2013.
- “The Metabolic Axis of Evil: Obesity, Diabetes and Atherosclerosis” Presented as part of the Department of Biological Sciences Seminar Series, Southern Illinois University-Edwardsville, Edwardsville, IL. October 1, 2012.
- “Physical Activity and Aging: Physical and Psychological Benefits” Presented as part of the Life Long Learning Series, Southern Illinois University-Edwardsville, Edwardsville, IL. May 8, 2012.
- “The Influence of an Obesogenic Diet on Oxysterol Metabolism in C57BL/6J Mice.” Presented at the School of Pharmaceutical Sciences Seminar Series, Southern Illinois University-Edwardsville, Edwardsville, IL. November 4, 2011.
- Department of Kinesiology: KINS 5583, Hormonal Responses to Exercise – “Lipid and Lipoprotein-Cholesterol Metabolism: Impacts of Exercise to Obesity.” Spring 2008.
- "How Do I Get into Graduate School and What Do I Do When I Get Out?" Member of Discussion Panel at the Texas Woman’s University Student Creative Arts and Research Symposium, Denton, TX. April 23, 2008.
- “Exercising for Healthy Hearts.” Presented at the Staff Development Day for the City of Denton, Denton, TX. February 22, 2008.
- “How Physically Fit Are You?” Presented as an annual workshop for the Irma Rangel Fit-to-Lead Camp, Texas Woman’s University, Denton, TX. July 2007, 2008.
- “Acute Response of Lipid and Lipoprotein Concentrations Following Treadmill and Circuit Resistance Exercise.” Presented at the Southern Lipid Consortium “Lipids and Lipoproteins, Physical Activity, and Diet: Implications for Health.” Florida State University, February 20 – 21, 2003.

#### *Memberships in Professional Organizations and Societies*

1997 to present:	American College of Sports Medicine (ACSM)
1998 to present:	American College of Sports Medicine - Texas Chapter (TACSM)
2005 to present:	American Physiological Society (APS)
2005 to 2012:	American Heart Association (AHA)
2005 to present:	Phi Kappa Phi Honor Society
2009 to 2011:	National Postdoctoral Association
2009 to 2012:	The Obesity Society

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## HONORS AND AWARDS

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- Vaughn Vandegrift URCA Research Mentor of the Semester, Southern Illinois University Edwardsville, Spring 2016
- Nominee, Vaughn Vandegrift URCA Research Mentor of the Semester, Southern Illinois University Edwardsville, Fall 2012, Spring 2014
- NIH Postdoctoral Fellowship, Atherosclerosis and Vascular Biology Training Center, Baylor College of Medicine, 2009-2011
- Outstanding Graduate Student Award, Texas Woman's University, 2008
- Student Research Presentation, Doctoral Category, 1st place, Texas Chapter, American College of Sports Medicine, 2004, 2008
- Student Research Presentation, Doctoral Category, 3rd place, Texas Chapter, American College of Sports Medicine, 2003, 2006
- Outstanding Ph.D. Student, Department of Kinesiology, Texas Woman's University, 2005
- Chancellor's Student Research Scholar, Texas Woman's University, 2005
- Phi Kappa Phi Academic Honor Society Induction, Texas Woman's University, 2005
- Marguerite Ann & Mary Agnes Murphy Scholarship, Texas Woman's University, 2004
- Student Research Development Award, Texas Chapter, American College of Sports Medicine, 2002, 2004
- Anne S. Duggan Departmental Scholarship, Texas Woman's University, 2003, 2004
- Kitty Winter Magee Honor Student Award, Texas Woman's University, 2002
- Who's Who Among Students in American Universities and Colleges, 2002, 2005
- Outstanding Undergraduate Student, Department of Health and Human Performance, University of Houston, 1996-1997