

**BRENDA J. SMITH, Ph.D., CSCS**

Regents Professor in Nutritional Sciences & John and Sue Taylor Professor

Department of Nutritional Sciences

College of Human Sciences

Human Sciences 420

Stillwater, OK 74078

Phone: (405) 744-3866; Fax: (405) 744-1357

E-mail address: bjsmith@okstate.edu

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**EDUCATION/TRAINING:**

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| 1999-2001 | Post-doctoral Training | NASA Fellowship<br>Department of Nutritional Sciences<br>Oklahoma State University, Stillwater, OK   |
| 1993-1999 | Ph.D.                  | Oklahoma State University, Stillwater, OK<br>Human Environmental Sciences: Nutritional Sciences<br>Research: The role of copper on bone loss in the ovariectomized and hind limb unloaded animal models. |
| 1985-1988 | M.S.                   | The University of Texas at Tyler, Tyler, TX<br>Major: Clinical Exercise Physiology<br>Research: Estimating maximal oxygen consumption from submaximal treadmill tests.                                   |
| 1981-1985 | B.S.                   | Oklahoma Baptist University, Shawnee, OK<br>Major: Health and Physical Education/Exercise Science  |

**CERTIFICATIONS:**

Certified Strength and Conditioning Specialist, National Strength and Conditioning Association

**PROFESSIONAL EXPERIENCE:**

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| 2016-present | Regents Professor, Department of Nutritional Sciences, College of Human Sciences, Oklahoma State University, Stillwater, OK |
| 2011-present | Professor, Department of Nutritional Sciences, College of Human Sciences, Oklahoma State University, Stillwater, OK         |
| 2014-present | Faculty member of Interdisciplinary Toxicology Program, Oklahoma State University, Stillwater, OK                           |

- 2013-2015 Associate Director of Research, Center for Family Resilience, College of Human Sciences, Oklahoma State University, Stillwater, OK
- 2007-2012 Coordinator of Graduate Program, Department of Nutritional Sciences, College of Human Sciences, Oklahoma State University, Stillwater, OK
- 2007-2011 Associate Professor Department of Nutritional Sciences, College of Human Sciences, Oklahoma State University, Stillwater, OK
- 2007-present Adjunct Associate Professor Department of Medicine, Endocrinology Section, University of Oklahoma Health Sciences Center, Oklahoma City, OK
- 2008-present Affiliate Member of the Gerontology Institute, College of Human Environmental Sciences, Oklahoma State University, Stillwater, OK
- 2007-present Collaborating Faculty, Section of Infectious Disease, Department of Medicine, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK
- 2005-2007 Associate Professor & Assistant Director of Surgery Research, Department of Surgery, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK
- 2006-2007 Adjunct Faculty, Department of Nutritional Sciences, College of Human Environmental Sciences, Oklahoma State University, Stillwater, OK
- 2001–2004 Assistant Professor of Nutritional Sciences, College of Human Environmental Sciences, Oklahoma State University, Stillwater, OK (*Reappointed 2004*)
- 2003-2004 Adjunct Assistant Professor, Department of Surgery, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK
- 1999 – 2001 Postdoctoral Research Fellowship in Nutritional Sciences, Oklahoma State University, Stillwater, OK
- 1994 – 2001 Assistant Professor/ Director of University Wellness Program (*Tenured in 2000*), Department of Health, Physical Education & Recreation, College of Arts and Sciences, Oklahoma Baptist University, Shawnee, OK
- 1988 – 1994 Women’s Basketball Coach/Instructor in HPER/Department of Health, Physical Education & Recreation/ Department of Athletics, Oklahoma Baptist University, Shawnee, OK
- 1987 – 1988 Assistant Basketball Coach/Instructor in HPER, Department of Health, Physical Education & Recreation/Department of Athletics, Oklahoma Baptist University, Shawnee, OK

1985 – 1987                      Exercise Physiologist, Exercise Department at UT Tyler Health Sciences Center, University of Texas, Tyler, TX

**HONORS and AWARDS:**

- 2017                      Regents Distinguished Teaching Award Nominee (pending), Oklahoma State University
- 2016                      Oklahoma Foundation for Excellence in Education, Nominee for Medal of Excellence in Education at a Research Institution
- 2016                      Golden Torch Award, Achafoa Chapter of Mortar Board, Oklahoma State University.
- 2015                      National Undergraduate Research Mentor Award, Association of Public Land Grant Universities, Board of Human Sciences
- 2015                      OSU Graduate Faculty Fellow, OSU Graduate College, Oklahoma State University
- 2015                      Outstanding Graduate Student Advisor Award nominee, College of Human Sciences; Oklahoma State University, Stillwater, OK
- 2014                      Outstanding Undergraduate Research Advisor, College of Human Sciences, Oklahoma State University
- 2013                      Outstanding Graduate Advisor/Mentor College of Human Sciences, Oklahoma State University
- 2012-2013              OSU Graduate Faculty Fellow, OSU Graduate College, Oklahoma State University
- 2012-2013              Oklahoma State University Women’s Leadership Academy, Oklahoma State University
- 2013                      Outstanding Graduate Coordinator nominee, Oklahoma State University
- 2012                      Regents Distinguished Teaching Award Finalist, Oklahoma State University
- 2012                      Outstanding Graduate Coordinator nominee, Oklahoma State University
- 2011                      Named to the John and Sue Taylor Professorship in Human Sciences, College of Human Sciences, Oklahoma State University
- 2011                      Extension Communications Award, The American Society for Horticultural Sciences – Southern Region, Stafne E (ed.), Carroll B, Clarke S, Holcomb R, Lake C, Lucas E, Kenkel P, Kizer M, McCraw D, McGlynn W, Mulder P, Peterson S, Sahs R, **Smith BJ**, Smith D, von Broembsen S, Willoughby C, Zhang H, “*Handbook of Oklahoma Vineyard Establishment and Management*”, 2010 Oklahoma State University.
- 2011                      Outstanding Graduate Student Advisor Award nominee, College of Human Sciences; Oklahoma State University, Stillwater, OK
- 2010                      Selected for the Dannon Mid-career Nutrition Leadership Institute, Dannon Institute; Geneva, IL (June 2010)

- 2010 Outstanding Graduate Academic Advisor Award nominee, College of Human Environmental Sciences; Oklahoma State University, Stillwater, OK
- 2009 Oklahoma State University Regent's Distinguished Research Award
- 2008 Elected to the Executive Council, the North American Shock Society of Injury, Inflammation and Sepsis, elected Basic Science Councilor
- 2008 Outstanding Graduate Student Advisor Award nominee, College of Human Environmental Sciences; Oklahoma State University, Stillwater, OK
- 2007 Outstanding Undergraduate Academic Advisor Award nominee, College of Human Environmental Sciences; Oklahoma State University, Stillwater, OK
- 2006 University of Oklahoma, College of Medicine Alumni Research Scholar
- 2004 President's Service Award, Outstanding Advisor Award; Oklahoma State University, Stillwater, OK
- 2004 Outstanding Graduate Student Mentor Award, College of Human Environmental Sciences; Oklahoma State University, Stillwater, OK
- 2004 Outstanding Undergraduate Academic Advisor Award nominee, College of Human Environmental Sciences; Oklahoma State University, Stillwater, OK
- 2000 Plenary Poster Presentation, Alterations in Gene Expression Induced by Chronic Exposure to Mechanical Unloading *In Vivo*. American Society of Bone and Mineral Research 22<sup>nd</sup> Annual Meeting
- 1999 OSU Graduate Research Excellence Award, Biological Sciences Graduate College
- 1999 Graduate Research Fellowship, NASA Oklahoma Space Consortium, Oklahoma State University
- 1999 Phoenix Graduate Student Award, Nutritional Sciences Department Nominee, Oklahoma State University
- 1998 Graduate Research Fellowship, NASA Oklahoma Space Consortium, Oklahoma State University
- 1998 Seretean Scholar, Academic Achievement Human Environmental Sciences, Oklahoma State University
- 1997 Seretean Scholar, Academic Achievement Human Environmental Sciences, Oklahoma State University
- 1996 – Kappa Omicron Nu, National Honor Society, Human Environmental present Sciences, Oklahoma State University
- 1995 Hunt Fund Faculty Award, Faculty Development Grant at Oklahoma Baptist University
- 1993 Oklahoma Baptist University Faculty Award "Seven Who Care" Awarded by Student Government Association
- 1985 – 1986 Academic Scholar, Graduate College at University of Texas at Tyler

**RESEARCH:**

Current Funded Projects: (PI: \$464,061 and co-PI or co-I: \$11,967,338)

- Smith BJ**, Lucas EA, Clarke SL, DeSilva U, Payton M, Lightfoot SA. Funding Source: Oklahoma Center for the Advancement of Science and Technology; *Food-derived Bioactive Components and the Gut as a Therapeutic Target for Osteoporosis*. Amount: \$135,000; Duration: 7/2014 - 6/2017.
- Smith BJ**, Lucas EA, Clarke SL, Rohla C. Funding Source: Oklahoma Agriculture Experiment Station. *Gut Immunomodulating Properties of Phenolic Compounds in Oklahoma Grown Pecans: Potential Health and Economic Impact*. Amount: ~\$100,000; Duration: 08/01/2015-07/31/2017.
- Smith BJ** and Lucas EA. Funding Source: Clemson University and USDA-ARS Appalachian Fruit Research Laboratory. *HoneySweet Plum Safety Study*. Amount: \$79,061; Duration: 12/1/15 – 11/31/17.
- Smith BJ**, Lucas EA, Hermann J, Payton ME. Funding Source Cherry Research Committee/Cherry Marketing Commission. The Influence of Tart Cherry Juice on Bone Biomarkers in Older Women. Amount: \$50,000; Duration: 2017-2018.
- Smith BJ**, Lucas EA, Lin D. Funding Source: Cherry Research Committee/Cherry Marketing Commission. Tart Cherry Supplementation and Exercise: A Novel Strategy for Osteoporosis Prevention. Amount: \$100,000; Duration: 2017-2019.
- Hays-Grudo J, Teague K, Cox R, Shreffler K, Croff J, Harrist A, Washburn I, **Smith BJ**. Funding Source: NIH CoBRE. *Children's Health Equity Solutions Center*. Amount: \$11.3 million; Duration: 2016-2021.
- Lucas E, **Smith BJ**, Ojo B. The capacity of dry beans (*Phaseolus vulgaris L.*) to prevent gut dysbiosis and gastrointestinal inflammation in a mouse model of diet-induced obesity. *Funding agency: Northarvest Bean Growers Association, amount: \$20,000; duration: 2016-2018.*
- Dionne C, Ertl W, **Smith BJ**, Day J, Cummuri S, and Skaggs J. Funding Source: Oklahoma Center for the Advancement of Science and Technology. *Work-related Performance in Men with Transfemoral Amputation*. Amount: \$135,000, Duration: 9/1/2015-2018.
- Lin D, Clarke SL, Lucas A, **Smith BJ**, Ramanathan R. Funding Source: USDA/NIFA. *Egg xanthophylls prevent chronic inflammation in type 2 diabetes*. Amount: \$149,998; Duration: 5/1/15-4/30/17.
- Clarke SL, Lucas EA, **Smith BJ**, and Ho, E. Funding Source: Oklahoma Agricultural Experiment Station; *Role of garlic in decreasing cardiovascular disease risk by promoting reverse-cholesterol transport*. Amount: ~\$87,000; Duration: 7/1/2015-6/30/17.
- Lin D, Clarke SL, Hildebrand D, Lucas EA, **Smith BJ**. Funding Source: Oklahoma Agriculture Experiment Station.  *$\beta,\beta$ -carotene 9',10'-oxygenase 2 impacts hepatic mitochondrial function in Obesity*. Amount: \$90,000; Duration: 8/1/15-7/31/17.
- Lucas EA, **Smith BJ**, DeSilva U, Dunford N, Clarke SL, Lin D. Funding Source: Oklahoma Agricultural Experiment Station. *Effect of wheat germ oil (WGO) from Oklahoma red winter wheat on inflammation, gut integrity, and microbial population in obese mice*. Amount: ~\$95,000; Duration: 2015- 2017.

Proposals Pending: (PI: \$500,000)

**Smith BJ**, Lucas EA, DeSilva U, Payton ME, Dardick CD, Ritchey J, Lightfoot SA. Funding Source: United States Department of Agriculture: Agriculture and Food Research Initiative (Foundational Program). *The Gut's Role in the Skeletal Response to Dried Plum Phenolic Compounds*. Amount: \$500,000; Duration: 3/1/16-2/29/2019.

Previously Funded Projects: (PI: \$1,885,500 and co-PI or co-I: \$5,110,376)

Bishop A, Gardner B, Carnes B, **Smith BJ**. Funding Source: Oklahoma Center for the Advancement of Science & Technology. *Understanding the Psycho-Physiological Dynamics of Well-Being and Health in Old-Old Age*. Amount: \$118,046; Duration 9/1/2013-9/31/16.

Lucas EA, **Smith BJ**, Perkins-Veazie P, Clarke SL, DeSilva U, Lightfoot SL, Payton ME. Funding Source: National Mango Board. *Understanding how mango affects glucose homeostasis in type 2 diabetes*. Amount: \$110,320; Duration: 1/1/14 – 12/31/16.

**Smith BJ**, Lucas EA, Cichewicz R. Funding Source: NIH. *Osteoprotective Activity of a Dried Plum Extract*. Amount: \$390,500; Duration: 2011-2015.

**Smith BJ**, Lucas EA, Clarke, DeSilva U, SL, Lightfoot S. Funding Source: Cherry Marketing Institute. *Osteoprotective Effects of Tart Cherries Phase II: Mechanisms of Action* \$50,000; Duration: 12/1/2013 -11/31/2015.

**Smith BJ** and Zhou D. Funding Source: College of Human Sciences, Associate Dean of Research Office. *Biomechanical and Microstructural Changes in Bone Caused by Type 2 Diabetes*. Amount: \$16,000; Duration 6/2013 - 6/2015.

**Smith BJ**, Lucas EA, Clarke SL, DeSilva U, Hermann J, Hildebrand D, Lightfoot SA. Funding Source: Oklahoma Agricultural Experiment Station; *Do Gut-mediated Benefits of Fruits and Vegetables Prevent Obesity and Its Detrimental Effects on Bone?* Amount: \$102,000; Duration: 7/2013 - 6/2015.

Lucas EA, **Smith BJ**, Earnest S, Purdie R, Perkins-Veazie P, Clarke SL, Payton ME. Funding Source: National Mango Board. *Mango Supplementation Will Improve Glucose Response and Clinical Parameters of Pre-diabetic Subjects*. Amount: \$183,368; Duration: 1/31/11 – 4/1/15.

Lucas EA, **Smith BJ**, Clarke SL, Stoecker BJ, Perkins-Veazie P, Lightfoot SA. Funding Source: National Mango Board. *Mango Improves Bone Parameters in Ovariectomized Mice, a Model of Osteoporosis in Postmenopausal Women*. Amount: \$70,415; Duration: 1/31/11 - 7/1/15.

Lucas EA, **Smith BJ**, Earnest S, Purdie R, Perkins-Veazie P, Clarke SL, Payton ME. Funding Source: National Mango Board. *A Pilot Study Investigating the Effects of Mango Supplementation on Body Composition and Inflammatory Markers of Overweight Individuals*. Amount: \$140,013; Duration: 1/31/11 – 3/1/2015.

Clarke SL, Gimble JM, Lucas EA, and **Smith BJ**. Funding Source (Internal): Oklahoma Agricultural Experiment Station; *Impact of Iron Status on Circadian Rhythm and Obesity*. Amount: 100,000; Duration: July 2013 – June 2015.

**Smith BJ**, Lucas EA, Clarke SL, Lightfoot S. Funding Source: Cherry Marketing Institute. *Osteoprotective Effects of Dietary Supplementation with Tart Cherries*, Amount: \$49,995; Duration: 2011-2013.

- Lucas EA, **Smith BJ**, Clarke SL, Stoecker BJ, Perkins-Veazie P, Lightfoot SA. Funding Source: National Watermelon Promotion Board. *A pilot test of watermelon to prevent bone loss in ovariectomized mice, a model of osteoporosis in postmenopausal women.* Amount: \$68,515; Duration: 2012- 2014.
- Lloyd PG, Ritchey J, Smith BJ, Henley W, Shaw J, Zhang G, Madihally S. *Acquisition of a BD FACS Aria Cell Sorter to Expand the Capabilities of OSU's Flow Cytometry Core Facility.* OSU Core Facility Grant Project. Amount: \$466,766; Duration 1/1/2014-12/31/2014.
- Rendina E, Lucas EA, Clarke SL and **Smith BJ**. Funding Source: United States Department of Agriculture, NIFA Pre-doctoral Fellowship. *The Role of Autophagy in Bone Metabolism: Implications for Childhood Obesity.* Amount: \$67,716; Duration: 8/1/2012 -7/31/2014.
- Smith BJ**, Lucas E, Clarke SL and Gimble J. Funding Source: Oklahoma Center for the Advancement of Science & Technology. *Dysregulation of Bone Metabolism with Type 2 Diabetes.* Amount: \$135,000; Duration: 2010 - 2013
- Smith BJ** & Lucas EA. Funding Source: OSU Technology and Business Program. *Identification of the Bioactive Components in a Dried Plum for Future Commercialization.* Amount: \$30,000; Duration: 2010 - 2013.
- Dionne C, Ertl W, **Smith BJ**, Day J, Cummuri S, and Skaggs J. Funding Source: University of Oklahoma Health Sciences Center VP for Research Seed Grant. *Residual Limb Measures During Performance of Biomechanical Work Related Activities in Adults with Trans-tibial Amputation Secondary to a Traumatic Event.* Amount: \$50,000; Duration: 2011-2013.
- Smith BJ**, Lucas EA, Clarke SL and Tim Griffin. Funding Source: Oklahoma Agricultural Experiment Station, *The Role of Exercise in the Prevention of Bone Metabolic Changes Associated with Diet-induced Obesity,* Amount: \$96,840; Duration: 2010 - 2012.
- Smith BJ**, Lucas EA, Brackett DJ, Lerner MR, Lightfoot S, Cullen Diane. Funding Source: United States Department of Agriculture. *How Does Dried Plum Reverse Bone Loss?* Amount: \$469,205; Duration: 9/1/06 - 8/31/11.
- Dionne C, Ertl W, **Smith BJ**, Day J, Cummuri S, and Skaggs J. Funding Source: Oklahoma Center for the Advancement of Science and Technology. *Residual Limb Measures During Performance of Biomechanical Work Related Activities in Adults with Trans-tibial Amputation Secondary to a Traumatic Event.* Amount: \$135,000; Duration: 2011-2014.
- Lucas EA, Dunford N, **Smith BJ**, and Clarke SL. Funding Source: Oklahoma Agricultural Experiment Station; *Anti-inflammatory properties of wheat germ oil (WGO) formulations developed at Oklahoma State University.* Amount: \$95,320; Duration: 7/1/12 – 6/30/14.
- Long B, Jacobson B, Smith D, Warren A, Volberding J, Shriver L, **Smith BJ**, Peksoz S, Petrova A. Funding Source: Facility Renovation and Core Facilities; *Applied Musculoskeletal & Human Physiology Research Lab Enhancement.* Amount: \$75,400; Duration: 1/1/2013-12/31/2013.
- Clarke SL, Lucas EA, **Smith BJ**, Funding Source: National Institutes of Health. *Molecular Coordination of Iron Homeostasis by MicroRNAs.* Amount: \$436,143; Duration: 7/1/2010 – 6/31/2012.
- Smith BJ** and Halloran B. Funding Source: California Dried Plum Board. *Dried Plum's Mechanism of Action in the Prevention of Age-related Osteoporosis.* Amount: \$24,910; Duration: 2010 - 2012.

- Smith BJ.** Funding Source: Vice President of Research and College of Human Environmental Sciences. *Osteoporosis Risk in Oklahoma Native American Women (continuation)*, Amount: \$22,000; Duration: 2010 - 2011.
- Smith BJ,** Hermann J, Clarke S, Leyva M, Stephens L, Aston C, Baker MZ, Taylor C. Funding Source: Oklahoma Agricultural Experiment Station. *Osteoporosis Risk in Oklahoma Native American Women: The Role of Inflammation and Diabetes*. Amount: \$91,697. Duration: 2008-2010.
- Kuvibidila S, Lucas E, Clarke SL, **Smith BJ** and Lightfoot S. Funding Source: Oklahoma Center for the Advancement of Science & Technology. *Effect of Mushrooms on Endothelin-1 Secretion and Cancer*. Amount: \$135,000; Duration: 2009-2011.
- Stoecker BJ and **Smith BJ.** Funding Source: Oklahoma Center for the Advancement of Science and Technology. *Selenium's Effects on Chronic Inflammation and Bone Quality*. Amount: \$135,000; Duration: 2008-2011.
- Lucas EA, **Smith BJ,** Peyton M, Lightfoot S, Hill MR. Funding Source: United States Department of Agriculture. *Momordica Charantia Modulates Glucose and Lipid Parameters in High Fat Diet-induced Obesity*. Amount: \$311,275; Duration: 2007-2011.
- Hildebrand R and **Smith BJ.** Funding Source: Mid-America Athletic Trainers' Association. *The Effects of Vitamin D Supplementation on Strength and Power in Collegiate Students and Division I Student-Athletes*. Amount: \$1,500; Duration: 2010-2011.
- Halloran B and **Smith BJ** (Co-PIs). Funding Source: California Dried Plum Board. *Beneficial Effects of Dried Plum and Age-related Osteoporosis*. Amount \$64,000; Duration: 2008-2010.
- Clarke SL, **Smith BJ,** and Lucas EA. Funding Source: Oklahoma Agricultural Experiment Station, *Microarchitectural, Structural, and Cellular Alterations in Bone: Role of Iron in Maintaining Optimal Bone Health*, Amount: \$75,000; Duration: 2009 - 2011.
- Lucas EA, Perkins-Veazie P, **Smith BJ,** Clarke SL, Kuvibidila SK, Lightfoot SA. Funding Source: The National Mango Board. *Effects of Mango on Bone Parameters in High Fat Diet-induced Obesity*. Amount: \$25,016; Duration: 2008 - 2011.
- Clarke SL, Lucas EA, and **Smith BJ.** Funding Source: United States Department of Agriculture, *Common Mechanisms Controlling the Response to Iron and Oxygen Availability*, Amount: \$100,000; Duration: 2008 - 2011.
- Hermann J, Phelps J, Clarke, SL, **Smith BJ.** Funding Source: *SNAP Education grant. Developing Core Nutrition and Physical Activity Messages Impacting Low-Income Older Oklahomans*. Amount: TBD; Duration 2009-2010.
- Ley T, Apblett A., Bulut R, Cruse A, Hanan JC, Smay JE, Veenstra JN, Blum FD, Gregg J, Ownby C, **Smith BJ.** Funding Source: Oklahoma Transportation Commission. *Procurement of Novel Microanalysis Equipment for Construction Materials*. Amount: \$355,686. Duration: 7/1/10-6/30/11.
- Brackett DJ, **Smith BJ,** Wright J, Ertl WJJ, Tomkins JF, Bemben D. Funding Agency: Department of Veterans Affairs. *Bone Physiology & Mechanics in Osteomyoplasty Amputation Rehabilitation*. Amount: \$748,917; Duration: 2006-2009.
- Smith BJ,** Brackett DJ, Lerner MR, Lightfoot S, Bronze M, Lucas EA. Funding Agency: Oklahoma Center for the Advancement of Science & Technology. *Anti-inflammatory Properties of Components of Dried Plum*. Amount: \$135,000; Duration: 2006-2009.



- Droke EA, **Smith BJ**, Brackett DJ, Lerner MR, Lightfoot SA. Funding Agency: United States Department of Agriculture. *The Protective Role of Soy Isoflavones Against Complications Associated with Obesity and Chronic Inflammation*. Amount: \$142,500; Duration: 2006-2009.
- Smith BJ**, Lucas EA, Clarke SL, Kuvibidila S. Funding Source: California Dried Plum Board. *Alterations in Immune Function with Dietary Supplementation of Dried Plums: Implications in Obesity and Type II Diabetes*. Amount \$14,782; Duration: 2008.
- Lucas EA, Perkins-Veazie P, **Smith BJ**, Lightfoot SA. Funding: Mango Board. *Mango Modulates Glucose and Lipid Parameters in High Fat Diet-induced Obesity*. Amount: \$49,981; Duration: 2007-2008
- Hill M and **Smith BJ**. *Time Course and Cose Response of Low Dose LPS Administration on Bone Loss and Cardiovascular Disease in C57BL/6 Mice*. Oklahoma IDeA Network for Biomedical Research Excellence, NIH; Amount \$10,000; Duration: 2006.
- Smith BJ**, Brackett DJ, Lerner MR, Lightfoot S, Bronze MS. *The Role of RANKL in the Pathogenesis of Osteoporosis and Atherosclerosis in Chronic Inflammation*. College of Medicine Alumni Association; Amount \$24,997; Duration: 2005-2006.
- Smith BJ**, Arjmandi BH, Stoecker BJ. *Bone Loss Reversal with Dried Plum in Rat Osteoporosis Model*. Oklahoma Center for the Advancement of Science and Technology (OCAST); Amount: \$135,000; Duration: 2002-2005.
- Hill M and **Smith BJ**. *The Role of PPAR- $\alpha$  in the Pathogenesis of Osteoporosis and Atherosclerotic Calcification in a Mouse Model of Chronic Inflammation*. Oklahoma IDeA Network for Biomedical Research Excellence, NIH; Amount: \$10,000; Duration: 6/1/05-6/9/05.
- Smith BJ**, Lucas EA. *Can Dried Plum Prevent Bone Loss in a Male Model of Osteoporosis?* United States Department of Agriculture (USDA); Amount: \$74,376; Duration: 2003-2005.
- Arjmandi BH, Hermann J, Lucas EA, **Smith BJ**. *A Study to Demonstrate the Effects of Women's Herbal Supplements on the Physical and Psychological Symptoms Associated with Menopause*. Industry; Amount: \$237,998; Duration: 2003-2005
- Hermann J, Brown B, Parker S, **Smith BJ**, Williams G. *New Communities Project*. United States Department of Agriculture (USDA) Children, Youth, and Families at Risk; Amount: \$138,800; Duration: 2003-2004.
- Martin E, **Smith BJ**, Winterfeldt E. *Assessment of Recommended Changes to Delivery of Medicare Diabetes Prevention and Self-maintenance Programs for Affected Elderly, Low Income, Uneducated Black Women*. Borchard Foundation, Amount: \$15,000; Duration: 2003-2004.
- Hermann J, Williams G, Brown B, Parker S, **Smith BJ**. United States Department of Agriculture (USDA) Children, Youth, and Families at Risk. *New Communities Project*. Amount: \$150,000; Duration: 2002-2003.
- Smith BJ**. Oklahoma State University Foundation Women's Giving Circle. *Can the Polyphenolic Compounds in Chocolate Protect Your Bones?* Amount: \$700; Duration: 2002-2003.
- Smith BJ** and Globus R. National Aeronautics and Space Administration (NASA) EPSCoR *Mechanisms of Action of Vitamin E Supplementation in the Prevention of Bone Loss Associated with Spaceflight*. Amount: \$21,000; Duration: 2002.

- Smith BJ.** National Aeronautics and Space Administration (NASA) EPSCoR Travel Grant *Mechanisms of Action of Vitamin E Supplementation in the Prevention of Bone Loss Associated with Spaceflight*. Amount: \$1,500; Duration: 1999-2000.
- Stoecker BJ, Arjmandi BH, **Smith BJ.** National Aeronautics and Space Administration (NASA) Life Sciences. *The Role of Vitamin E in Preventing Oxidative Damage to Bone in Near Weightlessness and its Effects on Bone Quality During Recovery*. Amount: \$206,000; Duration: 1999–2000
- Stoecker BJ and **Smith BJ.** National Aeronautics and Space Administration (NASA) EPSCoR Travel Grant. *Calcium Kinetics Related to Bone Formation and Resorption*. Amount: \$1,500; Duration: 1999-2000.

Proposals Submitted (Examples of submitted but not funded):

- Van Delinder J, Bird S, Tucker S, Bunting C, Atekwana E, Watson L, Krehbiel C, Van Den Bussche, Clary C, Pope C, Wang C, Mwavita M, Deng S, **Smith BJ**, Kennison S, Verchot J, Whitham M, Smith A. Funding Source: NSF ADVANCE-IT. *Oklahoma State University ADVANCE IT: Pathways to Faculty Excellence*. Amount: TBD; Duration: 2016-2021.
- Zhou D and **Smith BJ.** Funding Source: National Institutes of Health/NIDDK. *Investigating Structural and Chemical Alterations in Bone Caused by Type 2 Diabetes*. Amount: \$300,000; Duration: 10/1/2014-9/30/2016.
- Stutte G, Paul AL, Scorza R, **Smith BJ**, Dardick C, Graham T, Wheeler R. Funding Source: National Aeronautics and Space Administration; *PtFTI Modified Prunus domestica (Plum) as a Crew Nutrition, Menu Acceptability, and Bone Density Loss Risk Mitigation Technology*. Amount: \$1,046,303; Duration: 12/01/2014 – 11/30/2017.
- Smith BJ**, Carter SD, Lucas EA, Stoecker BJ, Payton M. NIH/USDA. *Adiposity, Growth and Bone: Implications on Childhood Obesity and Agriculture*. Amount: \$811,606; Duration: 7/1/2012-6/30/2015.
- Lucas E, **Smith B**, Clarke S, Payton M, DeSilva U, Hermann J. United States Department of Agriculture. *Mango Improves Post-prandial Response in Obese Individuals*; \$499,297.
- Smith BJ**, Clarke SL, Lucas EA, Kuvibidila S, Stoecker BJ. Funding Source: USDA AFRI. *The Immunomodulating Role of Zinc in Age-related Bone Loss: Zinc and Bone Revisited*. Amount: \$499,049; Duration: 2009-2012.
- Henley WJ, Elshahed MS, **Smith BJ**, Zhang G. *MRI: Acquisition of a Sorting Flow Cytometer for Research and Training at Oklahoma State University*. NSF. Amount: \$471,652; Duration: 9/1/11-8/31/14.
- Hubbs-Tait L, **Smith BJ**, Christine Johnson. Funding Source: USDA National Needs Graduate Fellowship Program. *Reducing Risk for Lifespan Obesity and Overweight (RRLOO)*. Amount: \$256,500; Duration: 2010-2014.

**PUBLICATIONS:**Refereed Publications (Total = 73)

73. Guo X, Wu L, Lyu Y, Chohanadisai W, Clarke SL, Lucas EA, **Smith BJ**, He H, Wang W, Medeiros DM, Lin D. Ablation of  $\beta$ , $\beta$ -carotene -9', 10'-oxygenase 2 remodels the hypothalamic metabolome leading to metabolic disorders in mice. *J Nutr Biochem* (in press).
72. Wu L, Guo X, Hartson SD, Davis MA, He H, Medeiros DM, Wang W, Clarke SL, Lucas E, **Smith BJ**, von Lintig J, Lin D. Lack of  $\beta$ ,  $\beta$ -carotene-9', 10'-oxygenase 2 Leads to Hepatic Mitochondrial Dysfunction and Cellular Oxidative Stress in Mice. *Mol Nutr Food Res*. 2016.
71. Rendina-Ruedy E and **Smith BJ**. Mouse Models of Diet-induced Obesity: Diabetes and Bone. Invited review submitted to *BoneKey Rep*. 2016 Oct 26;5:845.
70. Rendina-Ruedy E, Graef JL, Lightfoot SA, Ritchey JW, Clarke SL, Lucas EA, **Smith BJ**. Impaired Glucose Intolerance Attenuates Bone Accrual in Young Growing Skeleton by Promoting the Maturation of Osteoblasts: Role of Beclin1-Mediated Autophagy. *Bone Reports* 2016 5:199-207.
69. Babajide, O, El-Rassi GD, Perkins-Veazie P, Clarke SL, **Smith BJ**, Lucas EA. Mango Supplementation Modulates Gut Microbial Dysbiosis and Short Chain Fatty Acid Production Independent of Body Weight Reduction in C57BL/6 Mice Fed a High Fat Diet. *J Nutr*. 2016 Aug;146(8):1483-91.
68. Wu L, Guo X, Hartson S, Pappan K, He H, Medeiros DM, Wang W, Clarke SL, Lucas EA, **Smith BJ**, von Lintig J, Lin D. Lack of  $\beta$ ,  $\beta$ -carotene -9', 10'-oxygenase (BCO2) in carotenoid metabolism and diseases. *Exp Biol Med* (Maywood). 2016 Nov;241(17):1879-1887.
67. Hildebrand RA, Miller B, Warren A, Hildebrand D, **Smith BJ**. Compromised Vitamin D Status Negatively Affects Muscular Strength and Power of Collegiate Athletes. *Int J Sport Nutr Exerc Metab*. 2016 Aug 24:1-19.
66. Xin Guo, Lei Wu, Weiqun Wang, Denis M Medeiros, Stephen Clarke, Edralin Lucas, **Brenda J Smith**, Winyoo Chohanadisai, Dingbo Lin. 2016. Hypothalamic mitochondria in energy homeostasis and obesity. *Integrative Molecular Medicine* 2016;3(2):590-599.
65. Jackson E, Rendina-Ruedy E, **Smith BJ**, Lacombe VA. Loss of Toll-Like Receptor 4 Function Partially Protects against Peripheral and Cardiac Glucose Metabolic Derangements During a Long-Term High-Fat Diet. *Plos One*. 2015;10(11):e0142077.
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#### Invited Book Chapters:

- Smith BJ** and Bailey W. *Fostering Resilience among Older Adults Living with Osteoporosis and Osteoarthritis* Living with Chronic Health Conditions: Helping Families Survive and Thrive. Edited by Amanda Harrist, Ginger Welch, Joe Grzywacs. (USA: Springer Press 2017) ISBN 978-3-319-26033-4.
- Shen CL, Mo H, Smith BJ, Chen C, Chen L, Kwun I. *Chapter 35: Green Tea and Other Fruit Polyphenols Attenuate Deterioration of Bone Microarchitecture*. Polyphenols in Health and Disease, Vol.1; Edited by: RR Watson, VR Preedy and S Zibadi (Elsevier Inc., 2014) ISBN: 978-0-12-398456-2.
- Meister M, **Smith BJ**, Arjmandi BH, Lucas EA. *Effects of Flaxseed on Cardiovascular Disease Risk Factors During Menopause*. Handbook of Nutrition and Diet in Menopause, edited by RR Watson and V Preedy (King's College, London 2012).
- Smith BJ**, Rendina B, Lucas EA. *Dried Plums and Bone Health*. Bioactive Foods as Interventions for Arthritis and Related Inflammatory Diseases, Bioactive Food Components and Disease: Arthritis. Edited by Ronald R Watson. (UK: Academic Press) 2013; pp 83-96.
- Smith BJ** & Hermann J. *Aging, Zinc, And Bone Health*. Bioactive Foods as Interventions for the Aging Populations, Bioactive Food Components and Disease: Aging. Edited by Ronald R Watson. (UK: Academic Press) 2013; pp 433-444.
- Lucas EA, Dumancas GG, **Smith BJ**, Clarke SL, Arjmandi BH. *Health Benefits of Bitter Melon (Momordica charantia)* in Bioactive Foods in Promoting Health: Fruits and Vegetables edited by RR Watson and V Preedy (Elsevier, 2009)
- Lucas EA, SK Peterson, SL Clarke, **Smith BJ**. 2010. *Cardiovascular health benefits of grape Juice*. Handbook of Oklahoma Vineyard Establishment and Management. Edited by ET Stafne. (Oklahoma Cooperative Extension Service Circular E-1015, 2010).
- Arjmandi BH and **Smith BJ**. *Skeletal Effects of Phytoestrogens: Rodent Models; Diet in Phytoestrogens and Health*, AOCS Press, Champaign, IL pp 354-370, 2002.



Refereed Publications, Under Review

- Graef JL, Rendina-Ruedy E, Crockett EK, Ouyang P, King JB, Cichewicz RH, Lucas EA, **Smith BJ**. Select Polyphenolic Fractions from Dried Plum Enhance Osteoblast Activity through BMP-2 Signaling. *J. Nutr Biochem* (under review).
- Smith BJ**, Crockett EK, Chongwatpol P, Graef JL, Rendina-Ruedy E, Clarke SL, Lucas EA. Tart Cherry Supplementation Demonstrates Anabolic Properties by Increasing Bone Mineralization in a Model of Age-related Bone Loss. *J Nutr* (under review).
- Graef J, Rendina-Ruedy E, Crockett E, Ouyang P, King J, Cichewicz RH, Lucas EA, **Smith BJ**. Osteoclast differentiation is downregulated by select polyphenolic fractions from dried plum via suppression of MAPKs and Nfatc1. *Cur Dev Nutr* (under review).
- Ojo B, Simenson AJ, O'Hara C, Wu L, Gou X, Peterson SK, Lin D, **Smith BJ**, Lucas EA. Wheat germ supplementation alleviates insulin resistance and cardiac mitochondrial dysfunction in an animal model of diet-induced obesity. *Br J Nutr* (under review)
- Taylor AJ, Rendina-Ruedy E, **Smith BJ**, Zhou D. Ten Times Noise Reduction for T<sub>2</sub> and Bone Porosity Measurements: CPMG NMR Using Narrowband Analog Filters and Postponed Data Acquisition. *NMR in Biomedicine*, (under review).
- French C, Chandra LC, Clarke S, Lucas EA, **Smith BJ**, Lightfoot SA, Kuvibidila SR. The Inhibitory Properties of Ethanol Extracts of White Button (*Agaricus biporus*), Portabella (brown *Agaricus biporus*), and Shiitake (*Lentinan*) Mushrooms on the Secretion of Interleukin-8 and Vascular Endothelial Growth Factor by PC3 Cancer Cells. *Nutrition and Cancer* (under review)

Refereed Publications In Preparation

- Graef JL, Ouyang P, Wang Y, Rendina-Ruedy E, Marlow D, Clarke SL, Lucas EA, **Smith BJ**. Bioactive Components in Dried Plum Responsible for Reversing Bone Loss in an Animal Model of Age-related Osteopenia. *J Agr Food Chemistry*.
- Smith BJ**, Stephens L, Hermann J, Baker MZ, Payton M, Leyva MJ. Relationship of American Indian Blood Quantum with Osteoporosis Risk: A Cross-sectional Study of American Indian Women in Oklahoma. *Osteoporosis Int*.
- Leyva MJ, Stephens LD, Baker MZ, Aston CE, **Smith BJ**. Effects of Type II Diabetes and Tribal Heritage on Bone Health in Native American Women. *Diabetes Care*.
- Smith BJ**, , Denson KD, Bu SY, Prejeant K, Johnson MJ, Lerner MR, Stoecker BJ, Hill MR. LPS-mediated Chronic Inflammation Increases Circulating RANKL Coincident with Bone Loss in C57BL/6 Mice. *J Inflamm*.
- Smith BJ**, Ethriedge A, Bellmer D, Stoecker BJ, Arjmandi BH, Lucas EA. Enhanced Bone Recovery Following Hindlimb Unloading with Dietary Supplementation of Dried Plum. *Osteoporosis Int*.
- Smith BJ**, Ethriedge A, Bellmer D, Devareddy L, Stoecker BJ, L, Arjmandi BH, Lucas, EA. Dried Plum Enhances Vertebral Bone Recovery Comparable to Parathyroid Hormone Following Hindlimb Unloading. *Aging Research*.
- Shawron KM, Davis MD, Hester KK, Rendina E, Wang Y, Stoecker BJ, Lucas EA, **Smith BJ**, and Clarke SL. Dietary Iron Deficiency Impairs Bone Microarchitecture and is Associated with Decreased Osteogenic Gene Expression. *Osteoporosis Int*.

Presentations at Professional Meetings (Total = 130)

130. Washburn, K, Crockett EK, Lucas EA, **Smith BJ**. Polyphenolic Compounds Downregulate IL-6 in Gut Epithelial Cells under Inflammatory Conditions. Experimental Biology 2017, April 23, Chicago, IL. (Accepted).
129. EK Crockett, Washburn KF, Graef JL, Lucas EA, **Smith BJ**. MODE-K Cells as a Model to Study the Gut Epithelial Response: An Outside-in and Inside-out Approach. Experimental Biology 2017, April 23, Chicago, IL. (Accepted).
128. Rendina-Ruedy E, Guntur A, **Smith BJ**, Czech MP, Rosen CJ. Intracellular Lipid Droplets Serve as a Source of Energy Substrates for Proper Osteoblast Function. Endocrine Society, April, 2017 (Accepted).
127. Dionne C, Commuri S, Day JD, Ertl WJ, Smith BJ. Work Performance and Residual Limb Volume in Men with Transtibial Amputation over a 12-month Timeframe. ACRM 93rd Annual Conference, *Progress in Rehabilitation Research (PIRR)*, October - 4 November 2016, Chicago, IL.
126. O'Hara C, Ojo B, Simenson A, Herman J, **Smith BJ**, Lucas EA. The effects of acute mango consumption on post-prandial responses in healthy young adult males following a high-fat meal challenge. Harold Hamm Diabetes Research Symposium, October 28, 2016, Oklahoma City, OK.
125. Ojo B, Simenson AJ, O'Hara C, Wu L, Gou S, Peterson SK, Lin D, **Smith BJ**, Lucas EA. Wheat germ supplementation alleviates insulin resistance and cardiac mitochondrial dysfunction in an animal model of diet-induced obesity. Harold Hamm Diabetes Research Symposium, October 28, 2016, Oklahoma City, OK.
124. O'Hara C, McMillen L, Simenson A, Ojo B, **Smith BJ**, Herman J, Lucas EA. The effects of mango supplementation on post-prandial responses in healthy young adult males following a high-fat meal challenge. Oklahoma Academy of Nutrition and Dietetics Symposium, April 14, 2016, Tulsa, OK
123. Crockett EK, Graef JL, Ouyang P, Clarke SL, DeSilva U, Lucas EA, **Smith BJ**. Dietary Supplementation with Montmorency Tart Cherry Prevents the Alterations in Gut Mucosal Immunity that occurs with Ovarian Hormone Deficiency. Experimental Biology, April 2016; San Diego, CA.
122. Babajide O, Davila El-Rassi G, Perkins-Veazie P, Clarke S, **Smith BJ**, Lucas EA. Mango supplementation prevents gut microbial dysbiosis and modulates short chain fatty acid production independent of body weight reduction in C57BL/6 mice fed a high fat diet. Experimental Biology, April 2016; San Diego, CA.
121. Guo X, Wu L, Chowanadisai W, Clarke S, Lucas E, **Smith BJ**, Wang W, Medeiros DM, Lin D. Altered fatty acid metabolism remodels the hypothalamic metabolome to stimulate feeding behavior in BCO2 knockout mice. Experimental Biology, April 2016; San Diego, CA.
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119. **Smith, BJ**. ASN Dietary Bioactive Components RIS 2015 Hot Topic Session at Experimental Biology 2015. The Role of Dietary Bioactive Components in Bone Health and Development: "Osteoprotective Effects of Dried Plum: A Promising Dietary Strategy to Counter Age-related Bone Loss", Boston, MA (March, 2015)

118. Wu L, Guo X, Hartson S, Clarke SL, Lucas EA, **Smith BJ**, Lin D. Intact  $\beta,\beta$ -carotene-9', 10'-oxygenase2 (BCO2) is essential to integrity of hepatic mitochondrial function in mice. Experimental Biology 2015, Boston (oral presentation)
117. Babajide O, Wu L, Gou X, Semkoff J, Janthachotikun SJ, Eldoumi H, Peterson S, Perkins-Veazie P, Lin D, **Smith BJ**, Lucas EA. Mango supplementation averts hepatic and cardiac mitochondrial dysfunction in mice fed a high-fat diet. Experimental Biology, March 2015; Boston, MA.
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114. Rendina-Ruedy E, Graef JL, Lightfoot SA, Ricthey JW, Lucas EA, Clarke SL, **Smith BJ**. Glucose Intolerance Attenuates Bone Accrual in the Young Growing Skeleton by Promoting the Maturation of Osteoblasts through Beclin1-mediated Autophagy. (Presented at the ASBMR Preconference meeting on Diabetes and Bone and the American Society of Bone & Mineral Research meeting, Houston, TX 2014).
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## **TEACHING:**

### **TEACHING EXPERIENCE:**

Department of Nutritional Sciences, Oklahoma State University, Stillwater, OK

#### **Current Teaching Responsibilities: (2007-present)**

NSCI 3021 Nutrition and Evidence Based Practice II—Spring & Fall 2014-present  
NSCI 4023 Nutrition and the Pathophysiology of Chronic Disease—Fall 2007-present  
NSCI 4850 Independent Studies in Nutritional Sciences  
NSCI 5023 Advanced Nutrition and the Pathophysiology of Chronic Disease—Fall 2007, Spring 2009-present (odd years)  
NSCI 5393 Nutrition and Aging—Spring 2008-present (even years)  
NSCI 5843 Non-thesis option class—Spring 2012; Spring 2013  
NSCI 5961/5960 Nutrition Seminar (for M.S. students)—Spring 2008-2013 & Fall 2008-2012  
NSCI 6961/6960 Nutrition Seminar (for Ph.D. students)—Spring 2008-2013 & Fall 2008-2012  
NSCI 6870 Independent Studies in NSCI—Fall 2009, Spring 2011 & 2013

#### **Teaching Responsibilities During Previous Appointment at OSU (2001-2004):**

NSCI 2111 Professional Careers in Foods and Nutrition—Spring 2002-2004  
NSCI 2114 Principles of Human Nutrition—Fall 2001-2004  
NSCI 2114 Principles of Human Nutrition Honors Discussion—Fall 2000-2004  
NSCI 4133 Nutrition for Exercise and Sport— Spring 2002-2005  
NSCI 5123 Research Developments in Nutritional Sciences—Summer 2003

Department of Kinesiology and Leisure Studies, Oklahoma Baptist University (1994-2001)

Nutrition for Exercise and Sport  
Exercise Physiology I  
Exercise Physiology II  
Exercise Prescription for Normal and Special Populations  
Exercise Testing Techniques  
Personal Health Issues  
Topics: Weight Management  
Teaching and Designing Individual Fitness Activities  
Basic Nutrition  
Concepts in Physical Fitness

#### **Guest Lecturer/Presentations:**

VPR Panel Series: The Center for Integrative Research on Childhood Adversity (CIRCA),  
“CIRCA Training Opportunities Across the Research Continuum” (February, 2017)  
Panel Member: “Women in Leadership”, Sponsored by the Women’s Faculty Council, OSU  
Research Week (February, 2017)  
OSU HS 6993 Seminar in Human Sciences: “Effective Research Collaborations” (February  
2017)  
OSU NSCI 4143 Human Nutrition and Metabolism II, “Micronutrients in Bone Disease”  
(October 2016)

*(Guest Lecturer/Presentations: continued)*

OSU ARCH 3100 Space Engineering and Architecture “Human Comfort: Nutrition and Human Performance” (October 2016)

OUHSC RS 6113 Physiology of Rehabilitation: “Nutrition and Bone Health: Insights and New Directions in the Field of Osteoporosis” (October 2015).

OSU HHP 3233 General Medical Concepts: “Sports Nutrition in Athletic Performance and Special Populations” (October 2015)

OSU NSCI 5563 Nutritional Assessment: “Assessment Using Dual-energy X-ray Absorptiometry (DXA)” (May, 2015)

OSU HHP 3233 General Medical Concepts: “Nutrition in Athletic Performance and Injury Prevention and Rehabilitation” (October 2014)

OUHSC RS 6113 Rehabilitative Sciences Orthopedic Specialization: “Obesity, Inflammatory and Osteoporosis” (September 2013)

OSU HHP 3233 General Medical Concepts: “Role of Nutrition in Athletic Performance and Injury Prevention and Rehabilitation” (September 2013)

OSU HS 6993 Seminar in Human Sciences: “Developing Effective Research Collaborations” (February 2013)

OSU HHP 3233 General Medical Concepts: “Role of Nutrition in Athletic Performance and Injury Prevention and Rehabilitation” (October 2012)

OSU HS 6993 Panel Discussion: “Career Development—How to Establish a Research Program” (March 2012)

OSU HHP 3233 General Medical Concepts: “Role of Nutrition in Athletic Performance and Injury Prevention and Rehabilitation” (October 2011)

OSU NSCI 5743 Advanced Laboratory Techniques in Nutritional Sciences—“X-ray Based Imaging Techniques” (November 2011)

OSU NSCI 5563 Nutrition Assessment—“Dual-energy X-ray Absorptiometry as a Tool in Assessment” (July 2011)

OSU Animal Science Seminar—“Bioactive Components in Plant-based Foods and the Search for a Novel osteoporosis therapy” (April 2011)

OSU ZOO 4215 Mammalian Physiology—Guest Lecture: “Bone Physiology: What’s New in the Field of Bone Health and Research?” (April 2011)

OSU HHP 3233 General Medical Concepts: “Role of Nutrition in Athletic Performance and Injury” (November 2010)

OSU College of Veterinary Medicine Seminar—“The Immunoregulatory Role of Nutrients and Non-nutritive Compounds in Inflammation” (September 2010)

OSU HHP 3233 General Medical Concepts: “Nutrition and Athletic Performance” (October 2009)

OUHSC Didactic Lecture Series to Endocrinology Fellows: “Clinical Nutrition: Dietary Supplements—Nutrition Supplements, Functional Foods and Herbs in Chronic Disease” (May 2009)

OUHSC Didactic Lecture Series to Endocrinology Fellows: “Clinical Nutrition: Tube Feedings” (April 2009)

OUHSC Didactic Lecture Series to Endocrinology Fellows: “Clinical Nutrition: Parenteral Nutrition” (February 2009)

OUHSC Didactic Lecture Series to Endocrinology Fellows: “Clinical Nutrition: Drug-Nutrient Interactions” (January 2009)

*(Guest Lecturer/Presentations: continued)*

Ouhsc Didactic Lecture Series to Endocrinology Fellows: “Clinical Nutrition: Micronutrients II” (December 2008)

Ouhsc Didactic Lecture Series to Endocrinology Fellows: “Clinical Nutrition: Micronutrients I” (November 2008)

Ouhsc Didactic Lecture Series to Endocrinology Fellows: “Clinical Nutritional Assessment” (October 2008)

OSU HHP 3233 General Medical Concepts: “Sports Nutrition for Athletic Trainers” (October 2008)

College of Human and Environmental Sciences Graduate Student Association, “Turning Presentations into Manuscripts” (February 2008).

OSU HHP 3233 General Medical Concepts: “Sports Nutrition for Athletic Trainers” (October 2007)

OSU NSCI 5870 Orientation in NSCI: “The Nitty Gritty of Graduate Work” (September 2007)

Ouhsc NUTR Medical Nutrition Therapy: “Cardiac Rehab” (March 2007)

OSU NSCI 5463 Advanced Nutrition: (October 2006)

“Fat-soluble Vitamins: Traditional Roles of Vitamin A and D and Their Emergence as Major Players in Immune Function”

“Vitamins E and K: Current Knowledge and New Horizons”

Ouhsc NUTR Medical Nutrition Therapy: “Cardiac Rehab” (March 2006)

Ouhsc RADI 5403 Introduction to Clinical Biomedical Informatics

Lecture 1: “Energy, Catalysis, and Biosynthesis” (August 2005)

Lecture 2: “How Cells Obtain Energy” (September 2005)

Lecture 3: “Cell Communication” (October 2005)

OSU HHP 3233 General Medical Concepts: “Sports Nutrition for Athletic Trainers” (Fall 2004)

OSU NSCI 5393 Nutrition and Aging Course: “Exercise and the Elderly” (Spring 2003 & 2004)

OSU NSCI 4643 Critical Issues in Nutrition and Healthcare: “Nutrition for Athletes” (Fall 2002, 2003, and 2004)

OSU HHP 2603 Total Wellness: “Basic Nutrition for Wellness” (Fall 2001)

## **ACADEMIC ADVISING/MENTORING:**

### **Undergraduate Students:**

#### Current Undergraduate Student Research Projects

Karley Washburn—Niblack Research Scholar, Dried Plum Phenolic Compounds Alter Gut Immunity and Integrity (2016-present)

Kendall Anderson—Anti-inflammatory Properties of Polyphenolic Compounds from Oklahoma Grown Pecans (Spring 2017-present)

### Current Undergraduates Honors Thesis Advisor

Kelsi Emmons—"Comparative Study of Lower Limb Osteomyoplasty and Standard Amputation" (Anticipated completion May 2017)

Chelsea Garner—"The Pre- and Post-operative Challenges for Obese Patients Undergoing Tibiofemoral Joint Replacement Surgery: The Role Physical Therapy in Meeting these Challenges" (Anticipated completion May 2017)

### Completed Undergraduate Student Research Projects

Honors Thesis Advisor: Erica Crockett--Benefits of Tart Cherry Polyphenols on the Gut Mucosal Immune System (2015-2016).

Wentz Research Scholar: Erica Crockett—Effects of Tart Cherry on the Gut-Bone Connection (2015-2016).

Research Advisor: Hannah Patterson—Alterations in Complete Blood Counts with the Consumption of GMO Plums (Spring 2016).

Research Advisor: Kyndall Muncrief—Bioactive Components in Dried Plum and their Influence on Bone Microarchitecture (2015-2016)

Niblack Scholar Research Advisor: Erica Crockett—Osteoprotective Effects of Cherry: Mechanisms of Action (2014-2015). 2015 Women's Faculty Council Undergraduate Research Award.

Research Advisor: Maria Mendez—The Role of Estrogen in Gastrointestinal Epithelial Cell Integrity, First Place at OSU Research Symposium– Biological Sciences Category – Oral Presentations (February, 2015)

Research Advisor: Zachary Edens—Immunological Response to Dried Plum Supplementation in Large Intestine of Ovarian Hormone Deficient C57BL/6 Mice, Second Place at OSU Research Symposium– Biomedical Sciences Category – Oral Presentations (February, 2015)

Kathleen Briggs Undergraduate Research Symposium, Meredith McKnight— The Bone Response in Postmenopausal Osteopenic Models to Tart Cherry Supplementation (May, 2015).

Freshman Scholars Research Advisor: Meredith McKnight— The Bone Metabolic Response in Postmenopausal Osteopenic Models to Dried Plum Supplementation (May, 2015).

Honors Thesis Research Committee: Brie Horton—"Iron and its relationship with chronic diseases including; Obesity, Cardiovascular Disease, and Type Two Diabetes: A Literature Review" (Spring 2015)

Research Advisor: Kylee Summers—"The Oklahoman 100 Year Life Project: Lillian Louise Summers" (May, 2015)

Research Advisor: Zach Edens—Effects of Phenolic Compounds from Plum on Gut Mucosal Immunity (2014-2015)

Research Advisor: Maria Mendez—Green Tea Polyphenols and their Effects on Bone Health (July, 2014)

Research Advisor: Nataly Daggy—Lew Wentz Research Project, "Alterations in Body Composition and Adipose Tissue Fatty Acid Synthesis Associated with Dried Plum and Its Bioactive Components in C57BL/6J Mice. (May 2014—Recognized for Honorable Mention Award)

Research Advisor: Sarah Philpot—Capacity of Fruits and Vegetables to Protect Against the Negative Effects of a High Fat Diet on the Gut Microbiome. (May 2014)

*(Undergraduate Research Projects continued)*

- Research Advisor OK LSAMP Scholar: Nataly Daggy—“Dried Plum’s Ability to Protect from Post-Menopausal Weight Gain Due to Alterations in Gut Micro Flora”. Presented at OSU LSAMP Program, Stillwater OK. (September 2013)
- Honors Thesis Research Committee: Rachel Nowlin—“Influence of Iron on Iron Regulatory Proteins in the Mouse Microglial Cells.”
- Honors OSU Graduate and Undergraduate Research Symposium Undergraduate First Place Oral Presentation in Biological Sciences: K.D. Hembree, “Influence of weight on glucose intolerance and bone mass in young growing animals.”
- Research Advisor: Kelsey Hembree—“Influence of Weight Loss and Exercise on Glucose Intolerance and Bone Mass in Young Growing Animals” (Spring 2012)
- Honors Research Advisor: Angela Sasaki: “Alterations in Bone Associated with Diet-induced Obesity and Type II Diabetes” (2010-2011)
- Independent Study Research Project, Kelsey Hembree—Undergraduate Research: “Comparison Study of the Anabolic Effects of Dried Plum and Other Dried Fruits Rich in Polyphenolic Compounds” (Spring 2011)
- Independent Undergraduate Research Project, Kyle Stanley “Water Exercise as a Rehabilitation Modality for Osteoarthritis in the Elderly” (Spring 2011)
- Honors Research Committee, Andrea Richardson—“A Review: The Dysregulation of Iron Metabolism and the Development of Osteoporosis” (Spring 2011)
- Honors Research Committee, Grace Kirkpatrick—“A Systematic Review of Type II Diabetes Education Efforts and the Barriers to Living as a Healthy Diabetic. (Spring 2011)
- Independent Research Study Project, Darren J. Vargas—Undergraduate Research: “Effects of Polyphenolic Fractions from Dried Plum on Osteoblast Proliferation, Differentiation and Activity” (Fall 2010)
- Kathleen Briggs Undergraduate Research Symposium: Research with the Greatest Potential Award. Kristen Hester—“Bone Loss in a Diet-induced Obesity Model of Type 2 Diabetes.” (2010)
- Honors Research Advisor: Kristen Hester—“Bone Loss in a Diet-induced Obesity Model of Type 2 Diabetes.” (2009-2010)
- Kathleen Briggs Undergraduate Research Sweepstakes Winner: Jenny Roach, “Impact of Physical Activity Performed During Puberty and Early Adulthood on Bone Mineral Density in Native American Women 50yrs of Age and Older” (Spring 2010)
- Best Overall Presentation at the OSU Freshman Research Scholars Colloquium Honors Research: Jenny Roach, “Impact of Physical Activity Performed During Puberty and Early Adulthood on Bone Mineral Density in Native American Women 50yrs of Age and Older” (Spring 2010)
- Freshman Scholars Program, Jenny Roach—“Lifetime Physical Activity and Bone Health” (2009-2010)
- Honors Research Committee: Alex Nolan—Effects of Mangiferin and Adipogenesis (Completed 2009-2010)
- Honors Research Committee: Kelly Piguet---“The Effects of Momordica Charantia on Bone Parameters in Mice Fed High Fat Diet” (Completed Spring 2009)
- Independent Research Project, Alex Lacy—“The Implication of Lessons Learned from Participation in a Childhood Obesity Research Project” (Completed Fall 2009)



*(Undergraduate Research Projects continued)*

- Independent Research Project, Meagan Lehrmann—“Future Directions of the Physician’s Assistant Profession” (Completed Fall 2009)
- Niblack Research Committee: Heather Alexander—“The Effect of Mushroom Extracts on Cancer Cell Proliferation and Endothelin-1 Secretion” (Completed Fall 2008)
- Independent Research Project, Stacia Rempel—“The Role of Physical Therapy in the Rehabilitation of Back Injuries” (Completed Fall 2009)
- Freshman Scholars Program, Angela Sasaki—“Alterations in Oxidative Status and the Impact on Bone Mass and Microarchitecture” (Completed Spring 2008)
- Honors Research Committee, Angela Brown—“The Effects of Mango on Bone Parameters in Mice Fed High Fat Diet” (Completed Spring 2008)
- Independent Research Project, Kate Sims—“The Nurses Role in Caring for Children with Down’s Syndrome” (Completed Spring 2008)
- Independent Research Project, Alyson Tidwell—“Novel Methodologies and Future Direction in Dental Hygiene” (Completed Spring 2008)
- Independent Research Project, Jonathan Lim—“Methodologies in Nutritional Sciences Research: Focus on Protein Assays” (Completed Spring 2008)
- Wentz Research Advisor: Adam Makin—“Nurses attitudes, beliefs, and knowledge regarding herbal and nutritional supplements” (Co-research advisor with Dr. Kathy Keim; Completed Fall 2004)
- Honors Thesis Research Advisor: Amanda Jensen—Oklahoma State University Honors College; Project Title: “Polyphenolic compounds effects on osteoblast cells” (Completed Summer 2003)
- NASA Student Fellowship Advisor: Andrea Beaver—NASA EPSCoR: “Vitamin E’s ability to suppress COX-2 activity in osteoblasts; Award: \$7,333; Research Advisor— (Completed Summer 2002)

Current Undergraduates Honors Contracts

Spring 2017, N/A

Completed Undergraduate Honors Contracts

- Katelyn Jarvis—Case Study Focused on New Physical Therapy Approaches to Patients with Chronic Knee Pain Due to Osteoarthritis (Fall 2016).
- Kelsi Emmons—Perceived Advantages in Training as an M.D. and D.O. (Fall, 2016).
- Erica Crockett—Process of Deciding on Becoming a Physician or Physician Assistant: Advantages and Disadvantages of Each (Fall, 2016)
- Lauren Tower— Type 2 Diabetics Seeking Care at Inner City Free Clinics are at Greater Risk of Poor Glucose (Fall 2015)
- Jordan Tussy—Ankle Injuries Among Players in the NBA (Fall 2015)
- Kelsey Schmitz—Nutrition and Childhood Obesity (Fall 2014)
- Lana Laughlin—Investigation of New Technologies in Dentistry with a Focus on 3-D Printing: Clinician’s Perception and Utilization (Fall 2013)
- Emily Jones—Diabetes Care in the Stillwater and Greater Oklahoma City Area: Needs Assessment of Care Options (Fall 2013)
- Morgan Enty—HIV Care in Oklahoma: A Needs Assessment of HIV Counseling and Services (Fall 2013)

*(Completed Undergraduate Honors Contracts)*

Rachel Nowlin—The Relationship Between Iron Stores and Inflammation Associated with Obesity (Fall 2012)

Allison Fuzzell—“Calcium Intake and Hypertension” (Fall 2011)

Kinsey Morgan—“The Effects of Vitamin E on the Lipid Profile” (Fall 2011)

Grace Kirkpatrick—“Nutrition in Acute Lymphoblastic Leukemia” (Fall 2010)

Jeremy Ransdell—“Nutritional Impact on Prostate Cancer Risk” (Fall 2010)

Andrea Richardson—“Bariatric Surgery and Nutrient Deficiencies with a Focus on Copper” (Fall 2010)

Karen D Verannean, “Influence of Vegetable Consumption on Mental Health and Dementia” (Fall 2009)

Kelly Piguet, “Low Income Families and Emergency Room Visits” (Fall 2009).

Kristen K. Hester, “Comparative Study of the Approaches of Osteopathic and Allopathic Cardiologists in the Treatment of Cardiovascular Disease” (Fall 2008)

Jonathan L. Hollingsworth, “Nutrition and Pharmacology” (Fall 2007)

Undergraduate Student Advising

**Oklahoma State University**

2017	16 advisees
2016	20 advisees
2015	19 advisees
2014	17 advisees
2013	14 advisees
2012	16 advisees
2011	17 advisees
2010	17 advisees
2009	15 advisees
2008	11 advisees
2007	10 advisees
2004	36 advisees
2003	33 advisees
2002	24 advisees
2001	15 advisees

**Oklahoma Baptist University (1994-2001)**

Undergraduate Student Advising—averaged 30 advisees per year

Honors Students Research Projects:

Carrie Moss (2001)

Julie Womack Ray (2001)

Leann Sanders (2000)

## **Graduate Students:**

### Current Graduate Students—MS Advisor

Tiffany Dodier  
James Bothwell  
Kendall Anderson (Starting Summer 2017)

### Current Graduate Students—MS Thesis Committee

Crystal O'Hara—Postprandial Response to Mango  
Tony Tang—ZIP12 and Neurite Development  
Giavanna McCall—Predictors of Health in Centenarians  
Adugna Melkie—Predictors of Childhood Health Outcomes in Ethiopia

### Current Graduate Students—PhD Chair and/or Research Advisor

Bryant Keirns (Starting Summer 2017)

### Current Graduate Students—PhD Dissertation Committee

Babajide Ojo—(Department of Nutritional Sciences, OSU).  
Jonathan Day—(Department of Rehabilitative Sciences, College of Allied Health, OUHSC).  
Allison Campolo—(Department of Physiology, College of Veterinary Medicine, OSU)  
Chaturika R. Henpita—(Department of Zoology, OSU) “Characterization of a Unique Fish Model to Study H<sub>2</sub>S Homeostasis”  
Wentao Lyu—(Department of Animal Science, OSU); Dissertation topic TBD.

### Clinical and Translational Scholars, OUHSC Program

Karah Sanchez—Bone architecture and interacting risk factors for osteoporosis (Summer 2008).

### External Examiner at Addis Ababa University for PhD Defense

Dawood Gashu (June 2014)

### Former Ph.D. Graduate Students—Dissertation Completed

\*Jenny Graef—“Bioactive Compounds in Dried Plum Enhance Osteoblast Activity via BMP Pathways and Decrease Osteoclast Activity by Suppressing Intracellular Calcium and Activation of MAPKs (Summer 2016).  
Girija Regmi—(Department of Physiology, College of Veterinary Medicine, OSU) “The Role of Bone Extracellular Matrix Proteoglycan in Bone Remodeling and Homeostasis” (Fall 2016).  
Joanna Fiddler—(Department of Nutritional Sciences, OSU) “Post-transcriptional Control of mRNA involved in Iron Metabolism by miRNA during ID and IRP Regulation in the Developmental Stages of Erythrocytes” (Fall 2016).  
Asitha Silva—(Department of Physiology, College of Veterinary Medicine, OSU) “Diabetes and Microvascular Disease”

\*Indicates Smith major advisor

*(Former Ph.D. Graduate Students—Dissertation Completed)*

- Amani Soloman—(Department of Nutritional Sciences, OSU) “Ability of Dried Plum Polyphenols to Protect Against the Detrimental Effects of Cadmium on Bone”
- \*Elizabeth Rendina—(Department of Nutritional Sciences, OSU) “Dysregulation of Bone Metabolism During Type 2 Diabetes Mellitus: Roll of Toll-like Receptor-4 and Autophagy.” (Spring 2014)
- McKale Davis—(Department of Nutritional Sciences, OSU) “Molecular Coordination of Iron Homeostasis by MicroRNA” (Summer 2013)
- Heidi Banse—(Department of Veterinary Medicine, OSU) “Equine Metabolic Syndrome: Mitochondrial Function, Oxidative Stress and Regulation of Lipid and Glucose Metabolism.” (Fall 2013)
- Vladi Sykova—(Department of Nutritional Sciences, OSU) “Herbal Supplements in Women of Childbearing Age” (Summer 2013)
- \*Rachel Hildebrand—(Department of Health and Human Performance, OSU)—“A Cross-Sectional Analysis of Vitamin D Status on Muscle Strength and Power in NCAA Athletes” (Summer 2013)
- \*Misti Leyva—(Department of Nutritional Sciences, OSU)—“Type 2 Diabetes Exacerbates Bone Loss in Native American Women” (Spring 2012)
- Hana Bekele—(Department of Nutritional Sciences, OSU)—“The Effects of Dietary Selenium Intake and Lipopolysaccharide Stimulation on Selected Immune and Inflammatory Markers in C57BL/6 Mice” (Spring 2012)
- Courtney Long—(Department of Microbiology & Immunology, OUHSC)—“E47 Regulates Osteoclast Differentiation and Function in Bone Remodeling” (Summer 2012)
- Feng Gao—(Department of Physics, OSU)—“Surface Studies of Novel Oxide-free Biocompatible Coatings on Metals” (Spring 2012)
- Jay Dawes—(Department of Health & Human Performance, OSU)—“A Description of the Anthropometric and Physiological Profile of Tactical Officers”—completed Summer 2011
- Lawrance Chandra—(Department of Nutritional Sciences, OSU)— “Modulation of Gut Immune and Host Inflammatory Responses by Edible Mushrooms”—completed Summer 2011.
- Seok-won (Paul) Pok—(Chemical Engineering Department, OSU)—“Design of Scaffold for Tissue Regeneration Design” (Ph.D. committee member)—completed Fall 2010.
- Emily Boldrin—“Effects of a Performance Drink on Cardiovascular Measures, Muscular Endurance and Hydration Status in Male Reserve Officer Training Corps at Oklahoma State University” (Ph.D. committee member)—completed 2010.
- Wendy Williamson—Effect of Supervised and Directed Exercise on Low Back Pain and Functional Activity” (Ph.D. committee member)—completed 2007
- \*So Young Bu—“Bone protective effects of dried plum and its polyphenols under inflammatory and oxidative stress conditions” (Ph.D. Research Advisor)—completed 2007
- Kim Quigley—“Factors Associated with High Nutrition Risk Among Oklahoma Older Americans Act Nutrition Program Participants” (Ph.D. committee member)—completed 2005.
- Latha Devereddy—“Soy Isoflavones may Reverse Bone Loss in an Ovariectomized Rat Model of Postmenopausal Osteoporosis” (Ph.D. committee member)—completed 2005
- \*Indicates Smith major advisor

*(Former Ph.D. Graduate Students—Dissertation Completed)*

- Do Yu Soung—“Soy Isoflavones Prevent Bone Loss in Orchidectomized Male Rat Model of Osteoporosis” (Ph.D. committee member)—completed 2005
- Fanta Toure—“Effects of Iodine and Selenium Status on Growth and Bone Quality of Growing Rats” (Ph.D. committee member)—completed 2004
- Elizabeth Stewart—“The Effects of Two Motivational Strategies on Exercise Adherence and Exercise Self-Efficacy In College Females” (Ph.D. committee member)—completed 2004

Former M.S. Graduate Students—Completed

- Traces Soh—“Iron Status Modulates Circadian Rhythm and Cellular Metabolism in C2C12 Cells” (Spring 2016)
- Jessica Semkoff—“The Effect of Mango Supplementation on Clinical Parameters of Individuals with Moderately Elevated Blood Glucose.”—(Spring, 2015).
- Babajide Ojo—“The Effects of Mango on Gut Microglial Populations and its Impact on Body Composition and Glucose Homeostasis in Mice Fed High Fat Diet”—(Summer, 2015).
- Sawanya Janthachotikun—“The Anti-inflammatory Effects of Wheat Germ Oil on Lipopolysaccharide-activated Human Monocytic THP-1 Cells”—(Spring, 2015).
- Monica Hakes—“The Relation of Maternal Iron and Zinc Status to Cognitive Development in Toddlers”—(Summer, 2015).
- Lei Wu—“Intact  $\beta,\beta$ -carotene-9', 10'-oxygenase2 (BCO2) is Essential to Integrity of Hepatic Mitochondrial Function in Mice.”—(Spring, 2015)
- Maryam Mahmood—“The Effects of Freeze-Dried Watermelon on Bone and Clinical Parameters of Ovariectomized Mice”—(Fall 2013).
- Maureen Meister—“Effects of Bitter Melon and Toll-like Receptor 4 on Glucose and Lipid Parameters in Mice Fed a High Fat Diet”—(Spring 2013).
- CheeYen Lau—“Effects of Mangiferin in Improving Metabolic Syndrome Risk Factors in Mice Fed a High Fat Diet”—(Spring 2012).
- Shelby Simpson—“High protein preterm formula: Effect on growth and outcomes in preterm infants admitted to the NICU”—(Summer 2012).
- Abiy Melaku—“Effects of Selenium Supplementation and Chronic Inflammation on Bone Microarchitecture and Strength in Mice”—(Summer 2012).
- Sin Ee Ter—“The Effects of Mango and Its Combination with Rosiglitazone on Clinical Parameters in Mice Fed High Fat Diet”—(Spring 2012).
- Kristen Hester—“Influence of Iron on Iron Regulatory Proteins and Inflammatory Gene Expression in Mouse Microglial Cells”—(Summer 2012).
- Christine French—“Bioactive Components in Mushrooms Down-regulate PC3 Cancer Cell Proliferation”—(Spring 2011).
- Krista Shawron—“Dietary Iron Deficiency Impairs Bone Microarchitecture and is Associated with Decreased Osteogenic Gene Expression”—(Spring 2011).
- Elizabeth Vitale—“Can Mango Supplementation Reverse Bone Loss in Ovariectomized Mice?”—(Spring 2011).
- Sandy Peterson—“Anti-inflammatory Properties of Oklahoma Grapes” (M.S. committee member)—(Spring 2010).

**\*Indicates Smith major advisor**

(Former M.S. Graduate Students—Thesis Completed)

- \*Yin Lim—“Alterations in Vitamin D Metabolism with Chronic Inflammation: Potential Implications in Inflammation-induced Bone Loss” (M.S. committee chair)—(Summer 2009).
  - \*Elizabeth Rendina—“Reversal of Inflammation-induced Bone Loss and Vascular Pathology by Dried Plum’s Polyphenols” (M.S. committee chair)—(Spring 2009).
  - Wenja Li— “Mango Modulates Body Fat and Plasma Glucose and Lipids in Mice Fed High Fat Diet.” (M.S. committee member)—(Summer 2009).
  - McKale Davis—“Coordination of Iron and Oxygen Signaling Through Post-transcriptional Regulation of Hypoxia Inducible Factor-2 alpha.” (M.S. committee member)—(Spring 2009).
  - Ryan Campbell—“Analysis of Nutritional Attitudes, Exercise Attitudes, and Stress Levels of Female College Cheerleaders and Pom Dancers (M.S. committee member)—(Spring 2007).
  - \*Ashley Ethridge—“Dried Plum Enhances Recovery of Bone Following Hindlimb Unloading in Female Rats (M.S. committee chair)—(Summer 2006).
  - Kiranmayi Korlagunta—“The Effects of Flaxseed on Glucose Profile in Native American Postmenopausal Women”—(M.S. committee member)—completed 2006
  - Sarah Walker—“Effect of an After School Education and Gardening Program on Nutrition and Physical Activity Behaviors in School Age Youth, Grades 3 – 8” (M.S. committee member)—completed 2006
  - Kelly Hager—Effects of Soy Isoflavones on Bone in Mice with Chronic Inflammation (M.S. committee member)—completed 2005
  - \*Emily Lancaster—“Select Components of Dried Plum and Their Effects on Bone Loss Induced by Hindlimb Unloading in the Female Rat” (M.S. committee chair)—completed 2005.
  - Kavitha Sankavaram—“Effects of Dietary Iron and Life Span Stage on Bone Micro-architecture in Female Rats” (M.S. committee member)—completed 2005
  - Sheau-Ching Chai—“Dose-dependent Effects of Vitamin E on Bone in an Orchidectomized Rat Model of Osteoporosis” (M.S. committee member)—2005
  - Rachel Bell—“The Influence of Supplemental Vitamin E and Zinc on the Response of Mouse Macrophages to Lipopolysaccharide” (M.S. committee member)—2005
  - \*Melissa Franklin—“Dried Plum Prevents Bone Loss in Male Model of Osteoporosis” (M.S. Committee Chair)—completed 2004
  - Anagha Patada—“The Effects of Flaxseed on Lipid Profile in Native American Postmenopausal Women” (M.S. Committee member)
  - Karen Rogers (M.S. committee member)—completed 2004
  - \*Lisa Cherry--“Testing the Stability of a Health Behavior Questionnaire in Seventh and Eighth Grade Students”— (M.S. committee chair) completed 2003
  - Tracy Riggs—“Effects Of Skeletal Unloading and Vitamin E on Bone in Aged Rats” (M.S. *ad hoc* committee member)—completed 2000
  - Sloan Martin (M.S. *ad hoc* committee member)—completed 2001
- \*Indicates Smith major advisor

Completed Graduate Students—MS Non-thesis Option Committee

Nahkyung Chang  
Kimberly Roberts  
Denise Baker  
Jie Lai  
Brittney van Leeuwen

Temporary Graduate Advisor as Graduate Coordinator:

2012	10 MS Students
2011	10 MS Students
2010	14 MS Students
2009	16 MS Students
2008	4 MS Students
2007	10 MS Students

**Research Scientists:**

Dr. Ping Ouyang (2014-2016)

**Post-doctoral Fellows:**

Oklahoma State University

So Young Bu (2007)

Surgical Resident Research Fellows at the University of Oklahoma Health Sciences Center:

Kristi Prejeant, M.D. (2006-2007)

Kent Denson, M.D. (2005-2007)

Danny Morgan, M.D. (2005-2006)

Endocrinology Fellow at the University of Oklahoma Health Sciences Center:

Eva Kalaitzoglou (2013-2015)

OSU-NIH Veterinary Scholars Research Program

Kaitlyn Belanger, Summer 2015

Ashley Chandler, Summer 2014

## **OUTREACH:**

### **INVITED PRESENTATIONS:**

- 35<sup>th</sup> Annual Arkansas-Oklahoma Horticulture Industry Show, “Health Benefits of Stone Fruit Consumption” (January, 2016).
- Board of Human Sciences, Association of Public Land Grant Universities, “Mentoring Undergraduate Researchers” (November, 2015).
- Ca Dried Plum Board Meeting, “New Insights into Dried Plum’s Bioactive Components and their Mechanism of Action” (November, 2015).
- National Strength and Conditioning Association, Oklahoma State Clinic, “Vitamin D Deficiency Negatively Affects Sport Performance in Collegiate Athletes”. Joint presentation with Dr. Rachel Hildebrand (September, 2015).
- OSU Center for Health Sciences. Friday Seminar Series: "Novel Dietary Strategies to Counter Age-related Bone Loss" (September, 2015).
- ASN Dietary Bioactive Components RIS 2015 Hot Topic Session. The Role of Dietary Bioactive Components in Bone Health and Development: “Osteoprotective Effects of Dried Plum: A Promising Dietary Strategy to Counter Age-related Bone Loss” (March, 2015)
- One Health presentation to Capitol Hill Group, “Dietary Strategies and Bioactive Food Components Designed to Mitigate Chronic Disease” (November, 2014).
- Center for Family Resilience Chautauqua, “Fostering Resilience among Older Adults Living with Osteoporosis and Osteoarthritis” (November, 2014).
- College of Human Sciences: Teaching Highlights, “Motivating Students” (October, 2014)
- Center for Family Resilience, Seminar Series, “Unraveling the Story of Type II Diabetes and Its Implications on Bone Health: A Translational Approach” (December, 2013).
- Payne, Pawnee & Noble County Medical Association, “Osteoporosis: Research Update and Impact on Practice” (March 2013).
- OSU Wellness Wednesday Seminar, “What’s New in Bone Health” (March 2013).
- OSU Biochemistry Seminar, “Regulation of Bone Metabolic Activity by Polyphenolic Compounds from Plant-based Foods”, Stillwater, OK (August 2012)
- OUHSC Allied Health Colloquium, “Therapeutic Potential of Dried Plum in the Treatment of Osteoporosis: Unique Phytochemical or Unique Combination of Phytochemicals?”, Oklahoma City, OK (February 2012)
- HOPE in Oklahoma, “Nutrition for Ovarian Cancer Survivors (Part II)”, Oklahoma City, OK (July 2011)
- Ovarian Cancer Survivors HOPE Group, “Nutrition and Exercise for Survivors of Ovarian Cancer”, Norman, OK (April 2011)
- OUHSC Physiology Department Seminar, “From Novel Botanical Product to New Osteoporosis Therapy: Lessons Learned” (February 2010)
- Guest on “Oklahoma Innovators” radio show—Sponsored by the Oklahoma Center for the Advancement of Science and Technology (August, 2010)
- Ertl Symposium 2010: “Diabetes, Bone Health & Amputation: Update on the VA Amputee Study”, Oklahoma City, OK (April 2010)
- OUHSC Research Round Table in Rehabilitative Sciences: “Interplay Between Bone and the Immune System: Implications for the Rehabilitative Sciences” (April 2010)
- Oklahoma Baptist University, “Career Opportunities and Graduate Programs in Nutrition and Exercise” Shawnee, OK (January 2010)



*(Invited Presentations continued)*

- North Central Oklahoma Dietetic Association: “Osteoporosis Update: The Obesity and Diabetes Connection”, Stillwater, OK (November 2009)
- OUHSC College of Allied Health, Department of Nutritional Sciences Fall Colloquium: “Recent Advances Reveal New Roles for Nutrition in Bone Health” (October 2009)
- Presentation at DASNR Day at the Oklahoma State Capitol, “Osteoporosis Risk in Oklahoma Native American Women: The Role of Inflammation and Diabetes” Oklahoma City OK (April 2009).
- Oklahoma Health Research Conference, “Anti-inflammatory Properties of Components of Dried Plum”, Oklahoma City, OK (April 2009).
- Warren Clinic: Physicians and Staff Continuing Education Program: “Osteoporosis Update: Nutrition’s Role in the Prevention and Treatment”, Stillwater, OK (September 2008).
- Oklahoma Health Research Conference, “Anti-inflammatory Properties of Components of Dried Plum”, Oklahoma City, OK (April 2008).
- Oklahoma State University Wellness Center, “The Orange Power of Fruits and Vegetables” (November 2007)
- Oklahoma Baptist University, “Career Opportunities and Graduate Programs in Nutrition and Exercise”, Stillwater, OK (October 2007)
- Pawnee Indian Health Advisory Board, “Oklahoma Native American Women Osteoporosis Study”, Pawnee, OK (July 2007)
- Oklahoma City Area Intertribal Health Board, “Oklahoma Native American Women's Osteoporosis Study”, Oklahoma State Health Department, Oklahoma City, OK (April 2007)
- University of Oklahoma, College of Allied Health, “Osteoporosis in American Indians: Development of a Research Protocol and a Translational Research Program” (March 2007).
- University of Oklahoma, College of Medicine, Department of Surgery Grand Rounds: “Fat So?” April 2006)
- State Conference on Promoting Healthy Weight in Oklahoma Children, “How do we prevent the perfect storm”, Oklahoma Extension Educators, Oklahoma City, OK (March 2006).
- University of Oklahoma College of Allied Health, “Inflammatory Conditions: A Role for Plant-based Foods and Compounds?” (February 2006).
- University of Oklahoma Department of Medicine Infectious Disease Group Grand Rounds, “The Role of the Immune Response in the Pathogenesis of Concurrent Atherosclerosis and Osteoporosis” (August 2005).
- University of Oklahoma Department of Medicine Infectious Disease Group Grand Rounds, “Chronic Inflammation and Bone Loss” (August 2004).
- Oklahoma Christian University Biological Sciences Seminar. “Naturally-occurring Products in the Treatment and Prevention of Osteoporosis” (March 2004).
- Iowa Tribe Women’s Health Symposium. “Skeletal Health and Hormone Replacement” at Iowa Tribal Center, Ponca City, OK (March 2004).
- OSU Nutrition Exposition: “Nutrition for Exercise and Sport” (February 2004)
- University of Oklahoma Health Sciences Center, Department of Endocrinology Grand Rounds. “Plant-based Products in the Treatment and Prevention of Diseases Associated with Chronic Inflammation” at OUHSC (January 2004)

*(Invited Presentations continued)*

- Healthy Women 2003: “Osteoporosis and Hormone Replacement” at White Eagle Clinic, Ponca City, OK (May 2003)
- Stillwater Running Club: Nutrition for Runners—What’s new? (March 2003)
- OSU Nutrition Exposition: “Nutrition for Exercise and Sport” (March 2003)
- Oklahoma Strength and Conditioning Association: “Sports Nutrition: Where are we now?” (February 2003)
- OSU Cooperative Extension In-Service: New Findings in Nutrition and Exercise (December 2002)
- OSU Nutritional Sciences Club Presentation—“Sports Nutrition in 2003” (February 2003)
- OSU Cooperative Extension: EFNEP Paraprofessional In-service—“Benefits of Exercise” (June 2002)
- OSU Nutritional Sciences Club Presentation—“Career Opportunities in Nutrition in Exercise” (February 2002)
- Cashion High School—Girls Basketball Team, “Nutrition for Optimizing Sports Performance” December 2001
- Shawnee Trails Running Club: “Nutrition and Exercise Performance”, Shawnee, OK (March 1999)
- OSU Nutritional Sciences Club: “Careers in Nutrition and Exercise” (February 1999)
- OSU Nutrition Exposition: “Nutrition in Exercise and Sport” (February 1999)
- Canadian Valley Electric Cooperative Inc. Wellness Program “Eating Your Way to Better Health”, Seminole, OK (October 1998)
- OSU Nutrition Exposition: “Eating to Win” (February 1998)
- OSU Men’s Basketball Team: “Nutrition and Training” (November 1997)
- OSU Nutrition Exposition: “Nutrition and the Athlete” (February 1997)
- Shawnee Kiwanis Club: “Nutrition with a Grain of Salt” (October 1995)

**Oklahoma State Cooperative Extension Service Activities:**

- Expert Reviewer for “Journey through Health Curriculum” for Older Adults (Fall 2012)
- Review of Fact Sheets for Older Adults: Updates related to MyPlate, U.S. Dietary Guidelines, and General Nutrition (Spring 2012)
- Review of Fact Sheets for Older Adults:
- T-3193 Diet and Health Guidelines to Lower the Risk of Cancer (new 2010)
  - T-3194 Diet and Healthy Guidelines for Food Intolerances (new 2010)
  - T-3195 Diet and Health Guidelines to Lower the Risk of Medicine and Nutrient Interactions (new 2010)
  - T-3196 Diet and Health Guidelines to Lower the Risk of Osteoporosis (new 2010)
  - T-3197 Diet and Health Guidelines to Lower the Risk of Diabetes (new 2010)
  - T-3198 Diet and Health Guidelines to Lower the Risk of Heart Disease (new 2010)
  - T-3199 Diet and Health Guidelines to Lower the Risk of High Blood Pressure (new 2010)
  - T-3200 Diet and Health Guidelines for Weight Loss (new 2010)

*(OSU Cooperative Extension Service Activities continued)*

Reviewer of “Nutrition for Older Adult” Curriculum (June 2009)

Oklahoma State Cooperative Extension In-service: “Osteoporosis Risk in Oklahoma Native American Women: The Role of Inflammation and Diabetes”, Stillwater, OK (January 2009)

Authored Curriculum: “Active Living Program” (January – May 1996)

In-service “Active Living Program” Training for State Cooperative Extension Professionals (November 1996)

Instructional video developed “Active Living Program” (September 1997)

**Oklahoma Baptist University Wellness Program Director:**

Program Design and Incentives--Health promotion program

Developed Marketing Campaign to Faculty/Staff/Students included promotional brochures, calendar of events, promotional flyers, news releases in university newsletter

Plan and Design Workout Facilities—New equipment funding \$50,000 (July 1998)

Educational Programs through the OBU Wellness Program

Seminar: “Herbs and Health” (May 1998)

Seminar: “Osteoporosis—Treatment and Prevention” (May 1997)

Seminar: “What’s Hot in Nutrition” (March 1997)

Program Evaluation

**SERVICE:**

National

- 2017 Reviewer for the following journals: Journal of Nutrition, Nutrition Research, Journal of Functional Foods, Osteoporosis International, Metabolism, British Journal of Nutrition
- 2016-present Editorial Board: Nutrition Research
- 2016 Reviewer for the following journals: Biomedical Research International, Stem Cells, Molecular Nutrition and Food, Bone, International Journal for Vitamin and Nutrition Research, Osteoporosis International, Lipids, Nutrition Research
- 2015-2016 Search Committee Member for Editor of ASN Journal of Nutrition—New Open Access Journal.
- 2015 Reviewer for the following journals: Osteoporosis International, Biochimie, PLOS One, Cellular Physiology and Biochemistry, Evidence-Based Complementary and Alternative Medicine, Molecular Nutrition and Food
- 2014-present American Heart Association Southwest Affiliate: Research Committee
- 2014 Reviewer for the following journals: Journal of Bone and Mineral Research; Cellular Physiology and Biochemistry; Biochimie; PLOS One; International Scholarly Research Notice
- 2013-present American Society for Nutrition Member of the Finance and Audit Committee
- 2014 Organizing Committee for the New Investigator Workshop, “Finding Your Scientific Niche and Establishing Yourself as an Independent Investigator”, North American Shock Society Meeting, Charlotte, North Carolina.
- 2014 Session Moderator for New Investigators, Shock Meeting, Charlotte, North Carolina, 2014
- 2014 *Ad hoc* reviewer of abstracts for the American Society of Nutrition, Experimental Biology, San Diego, CA April, 2014.
- 2013 Reviewer for the following journals: Journal of Bone and Mineral Research, Journal of Nutrition, PLoS One, Journal of Nutritional Biochemistry, Acta Diabetologica, European Journal of Nutrition, BMC Endocrine Disorders, The Journal of Obstetrics and Gynecology Research
- 2012 Reviewer for the following journals: Endocrine Research, Osteoporosis International, Journal of Nutrition, PLoS One, British Journal of Nutrition

- 2011-present Editorial Board: PLoS One (Associate Editor)
- 2011-2012 Basic Scientist Counselor, Executive Council for the North American Shock Society for Injury, Inflammation, and Sepsis
- 2012 Session Moderator for New Investigators, Shock Meeting, Miami FL, 2012
- 2011 Reviewer for the following journals: Journal of Nutrition, Stem Cell Research, British Journal of Nutrition, Osteoporosis International, Journal of Biomedicine and Biotechnology, Molecular Nutrition and Food Research
- 2011 Session Moderator for New Investigators, Shock Meeting, Norfolk VA, 2011
- 2010 Reviewer for the following journals: Lipids; British Journal of Nutrition; Plant Foods for Human Nutrition; Bone; Osteoporosis International; Plos One; Journal of International Molecular Sciences; Stem Cell Research; Journal of Cellular Physiology; Pharmacology Research; Immunology Letters
- 2010 Session Moderator for New Investigators, Shock Meeting, Portland OR, June 2010
- 2009 Reviewer for the following journals including British Journal of Nutrition; Journal of Bone and Mineral Research; Bone; Osteoporosis International; Stem Cell Research
- 2009 Session Moderator for New Investigators, Shock Meeting, San Antonio TX, June 2009
- 2008 Reviewer for the following journals including Journal of Bone and Mineral Research; Bone; Pharmacological Research; Archives of Oral Biology
- 2008 Panel member for the NASA's Bone Panel: Combined panel of NASA & National Space Biomedical Research Institute (January)
- 2008 - 2010 Elected Basic Scientist Counselor, Council for the North American Shock Society for Injury, Inflammation, and Sepsis
- 2007 Panel member for the NASA's National Space Biomedical Research Institute Bone Panel (May)
- 2007- President-appointed Mentoring Committee Co-chair, North American Shock Society
- 2006-2007 Appointed Awards and Honors Committee, North American Shock Society—Review all new investigator and travel award abstracts  
Review 10 Novo Nordisk Fellowship grant applications in Hemorrhagic Shock and Hemostasis for Early Career Investigators
- 2005 Member of the Rules Committee, Shock Society

- 2005-2006 Reviewer for the following journals: Journal of Applied Physiology and Journal of Bone and Mineral Research
- 2004 Reviewer for the following journals including: Journal of Applied Physiology, and Journal of Experimental Biology and Medicine.
- 2003 National Medical Research Council in Singapore, *Ad hoc* reviewer
- 2003 Wadsworth/Thomas Learning Publishing, “Understanding Nutrition” Whitney and Rolfes 10<sup>th</sup> ed.; Reviewer
- 2002-2003 United States Department of Agriculture, Improving Human Nutrition for Optimal Health, *Ad hoc* reviewer
- 2001-2002 United States Department of Agriculture, Improving Human Nutrition for Optimal Health, *Ad hoc* reviewer

State

- 2008 People Connected by Cancer organizer of the nutrition education
- 2007 People Connected by Cancer organizer of the nutrition education

Oklahoma State University

- 2017 Member of Working Group on Criminal Background Checks for GRAs and GTAs
- 2017 Chair of TOEFL Working Group: Charged with reviewing and providing recommendations TOEFL requirements
- 2016 Niblack Research Scholars Symposium panel member
- 2016 Search and Screening Committee for Senior Associate Athletic Director Legal Counsel
- 2016 Search and Screening Committee for the OSU Director of Scholar Development
- 2015-present Chair of Athletic Council
- 2014-present Chair Honorary Degree Committee
- 2015-2016 Chair of Academic Integrity Policy Working Group: Charged with reviewing and revising the OSU Academic Integrity Policy
- 2015-2016 Chair of Creative Component Working Group: Charged with reviewing and developing procedures around the non-thesis creative component
- 2014-present Vice-chair of Graduate Faculty Council
- 2014- present Alternate Member, OSU Radiation Safety Committee
- 2013-2014 *Ad hoc* Graduate Faculty Bylaws Committee (Subcommittee of Graduate Council)

2013-2014 Member, Vice President of Research and Technology Transfer Search Committee

2013-2014 Chair of Group I: Biological Sciences

2013-2015 Member, OSU Athletic Council

2013-2014 Graduate Academic Programs Committee (Subcommittee of Graduate Council)

2013-2014 Honorary Degree Committee

2012-2013 Graduate College Faculty Fellow

2011-present Member, OSU Graduate Council

2011-2013 Vice-chair of Group I: Biological Sciences

2011-2014 Vice-chair of the OSU Radiation Safety Committee

2011-2012 Member, Associate Dean of Graduate College Search Committee

2010-2011 Member, Dean of Graduate College Search Committee

2010-2011 Member, Health and Human Performance Search Committee

2010-2011 Member, Radiation Safety Officer Search Committee

2007-present Member of Group I Biological Sciences Graduate Faculty

### College

2016 Human Development and Family Science Review Panel for Endowed Chair proposal applications

2016 Human Development and Family Science Faculty Search Committee for George Kaiser Endowed Chair

2015-present College of Human Sciences RPT Committee

2013-2014 College of Human Sciences Member of Strategic Planning: Action Research Action Team

2012-2015 College of Human Sciences Academic Affairs Committee

2012-2014 College of Human Sciences representative to CollegeNet Committee

2011-2012 Member, Search Committee for Head of Human Development Family Sciences

2011 Member, Graduate Faculty Applicants Review Committee

2008-2011 Co-chair of Strategic Planning Steering Committee, College of Human Sciences

2008-2009 Member, Visioning Committee for the Associate Dean of Family and Consumer Sciences Position

2008-2014 Committee Member, OSU Radiation Safety Committee

- 2007-2012 Member, College of Human Environmental Sciences Graduate Council
- 2003–2004 Human Environmental Sciences Academic Affairs Committee
- 2003 Oklahoma State University, College of Human Environmental Sciences, Nutrition Exposition.
- 2002-2003 Reviewer: OK Agricultural Experiment Station Proposal
- 2002 Oklahoma State University, College of Human Environmental Sciences, Nutrition Exposition.
- 2001 –2002 Nutritional Sciences Club Advisor
- 2001 Oklahoma State University, College of Human Environmental Sciences, Nutrition Exposition.

### Departmental

- 2013-2014 Member, NSCI Search Committee
- 2011-2015 Member, NSCI RPT Committee
- 2009-present Member, Dietetic Internship Advisory Board
- 2009-2012 Member, NSCI *Ad hoc* Undergraduate Curriculum Committee
- 2010-2011 Member, NSCI *Ad hoc* Assessment Committee
- 2009-2010 Chair, NSCI *Ad hoc* Graduate Curriculum Committee
- 2008-2011 NSCI Graduate Student Organization Advisor
- 2008 NSCI Graduate Program Assessment
- 2007-2012 NSCI Graduate Coordinator
- 2007-present NSCI Journal Club
- 2007-2008 Developed NSCI Graduate Faculty Advising Handbook including policies and procedures
- 2003-2004 NSCI Department Graduate Committee
- 2004 Search Committee Member for department head, Department of Nutritional Sciences

### Administrative Service as NSCI Graduate Program Coordinator

- 2012 Graduate Student Handbook 4<sup>th</sup> Edition
- 2012 Develop plan for new NSCI Ph.D. Program
- 2011 Revised and updated Graduate Student Handbook and Graduate Faculty Advising Handbook 3<sup>rd</sup> Edition
- 2011 Implemented annual PhD student evaluation process



- 2011 Planned and Organized Graduate Student Orientation (August)
- 2011 Review HES graduate student scholarship applications (Spring)
- 2010 Develop test bank with the help of the graduate faculty for Comprehensive Exam for students in the non-thesis option
- 2010 Review HES graduate student scholarship applications (Spring)
- 2010 Developed “Review Guide” for Comprehensive Exam for students in the non-thesis option
- 2010 Planned and Organized Graduate Student Orientation (August)
- 2010 Reviewed and Developed new policy for Doctoral Candidacy and the Qualifying and Comprehensive Exam Policy for PhD students
- 2010 Assist with NSCI Graduate Program Assessment
- 2009 Planned and Organized First NSCI Graduate Student Orientation (August)
- 2009 Implement non-thesis option and other graduate curriculum changes
- 2009 Completion of New NSCI Graduate Student Handbook (August)
- 2009 Review HES graduate student scholarship applications (Spring)
- 2009 Review nominations for HES outstanding MS and PhD student (Spring)
- 2009 Participate in graduate student recruitment activities on and off campus—Host McNair Scholars and other on-campus visits; Presentation at Oklahoma Baptist University and the University of Oklahoma Health Sciences Center
- 2008 Review HES graduate student scholarship applications (Spring)
- 2008 Review nominations for HES outstanding M.S. and Ph.D. student (Spring)
- 2008 Develop Departmental graduate student database (Spring)
- 2008 Preparation and participation for PhD Program external review by USDA
- 2008 Completion of new NSCI Graduate Faculty Advising Handbook
- 2008 Develop the NSCI Graduate Program Assessment Plan
- 2008 Participate in graduate student recruitment activities on and off campus—Host McNair Scholars and other on-campus visits; Presentation at Oklahoma Baptist and Oklahoma Christian Universities
- 2008 Chair, *Ad hoc* Graduate Curriculum Committee to develop a non-thesis option of M.S. students
- 2008 Develop NSCI Graduate Student Handbook
- 2007 Review admissions process/standards for graduate students and graduate program curriculum

University of Oklahoma Health Sciences Center

2005-2007 R & D Committee: Veterans Affairs Medical Center

Oklahoma Baptist University/College/Department

1993- 2000 Wellness Program Task Force  
1998-1999 University Admissions Committee  
1999 University Scholars Program: Scholarship Committee  
1998 University Search Committee  
1994-1995 Human Subjects Research Committee  
1988-1992 Athletics Council  
1995-1997 Athletics Council

**PROFESSIONAL AFFILIATIONS:**

National

1998-present American Society of Bone and Mineral Research  
1996-present American Society for Nutrition  
1999-present American Dietetic Association  
ADA Research Practice Group  
2000-present National Strength and Conditioning Association  
2004-present North American Shock Society, Injury, Inflammation and Sepsis:  
Basic Sciences Councilor (2008-2012)  
Member of the Awards and Honors Committee (2006-2007)  
Co-chair of the Mentoring Committee (2007-present)  
Member of the Rules Committee (2005-2006)  
2009-present Sigma Xi and Oklahoma State University Chapter of Sigma Xi  
  
1985-2004 American College of Sports Medicine

Regional

1985-2004 American College of Sports Medicine

State

1999-present Oklahoma Dietetic Association  
2000-present Oklahoma Strength and Conditioning Association