CURRICULUM VITAE

Lauri O. Byerley, PhD., RDN, LDN, FAND

Current Title: Associate Professor, Research (Gratis)
Business Address: Department of Physiology
School of Medicine
Louisiana State University Health Sciences Center
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Current Title: Professor
Business Address: Sports and Health Sciences Department
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Education:

Undergraduate: B.S., Foods and Nutrition, Related Science
Iowa State University, Ames, IA
1975-1979

Graduate: M.S., Nutritional Sciences
Purdue University, West Lafayette, IN
1979-1981

Ph.D., Public Health/Nutritional Sciences
Minor, Biological Chemistry
The University of California, Los Angeles, CA
1984-1987

Post-Doctoral Fellowships:

Metabolism
Division of General Surgery
School of Medicine
Stanford University, Stanford, CA
1988-1989

Nutrition and Metabolism
Division of Endocrinology, Nutrition & Metabolism

Harbor-UCLA Medical Center
Los Angeles, CA
1989-1992

Certification: Registered Dietitian Nutritionist (RDN)

Licensure (LDN): Louisiana, Lic #2372, 4/7/2012 to present

Academic, Professional, and Research Appointments:

1981-1983	Research Dietitian, Clinical Research Center, Research and Education Institute, Harbor-UCLA Medical Center, Torrance, CA
1983-1984	Chief Research Dietitian, Division of Clinical Nutrition, Department of Medicine, University of California, Los Angeles, CA
1983-1987	Research Associate, Division of Endocrinology, Research and Education Institute, Harbor-UCLA Medical Center, Torrance, CA
1984-1988	Chief Dietitian, Division of Clinical Nutrition, Department of Medicine, University of California, Los Angeles, CA
1988-1989	Clinical Dietitian Specialist, Diabetes and Pregnancy, Nutrition Department, Stanford University Hospital, Stanford, CA
1990-1991	Instructor, Department of Home Economics, California State University, Long Beach, CA
1990-1992	Instructor, Department of Pediatrics, Harbor-UCLA Medical Center, Torrance, CA
1992-1997	Assistant Professor, Division of Nutritional Sciences, Department of Human Ecology, The University of Texas at Austin, Austin, TX
1997-2000	Director, Stable Isotope Core, Clinical Nutrition Research Unit, The University of Chicago, Chicago, IL
1997-2000	Assistant Professor, Section of Gastroenterology, Department of Medicine, and The Committee on Human Nutrition and Nutritional Biology, The University of Chicago, Chicago, IL
1997-2000	Assistant Professor, Section of Pediatric Surgery, Department of Surgery, The University of Chicago, Chicago, IL
2000-2005	Assistant Professor, Pennington Biomedical Research Center, Louisiana State University, Baton Rouge, LA
2002-2005	Adjunct Assistant Professor, School of Human Ecology, College of Agriculture, Louisiana State University, Baton Rouge, LA
2005	Visiting Scholar, Winthrop University, Rock Hill, SC
2005-2008	Associate Professor Research, The University of North Carolina at Charlotte, Charlotte, NC

2008-present	Associate Professor Research, Louisiana State University Health Sciences Center, New Orleans, LA
2016-present	Professor, American Public University System, Charles Town, WV

Membership in Professional Organizations:

American Physiology Society (Member)
American Society for Nutrition (Member)
Academy of Nutrition and Dietetics (Member)
Oncology Dietetic Practice Group (Member)
Research Dietetic Practice Group (Member, Chair-Elect, Chair, Past-Chair two years, Fundraising Chairman (four years), Membership Chairman, Secretary (two years), Webinar Chair, 2017 Symposium Chair, 2019 Symposium Chair)
Sports, Cardiovascular and Wellness Nutrition Dietetic Practice Group (Member, 2018 Spring Symposium Co-Chair, 2019 Spring Symposium Chair)
Cardiovascular Health and Well-Being Dietetic Practice Group (Chair-Elect, Chair, Past Chair)
National Nutrient Database Conference (Steering Committee, Chair-Elect)
Nutrition Physiology Interest Group (Secretary/Treasurer)

Awards and Honors:

P. Mable Nelson Scholarship, Iowa State University, 1978-1979.
UCLA Trainee Scholarship, University of California, Los Angeles, 1984-1985.
Recognized Young Dietitian of the Year, 1987.
Evelyn L. Neizer Fellowship, Stanford University, 1989.
National Research Service Award, National Institute for Diabetes and Digestive and Kidney Diseases, 10/1989 to 10/1990.
Individual National Research Service Award, National Cancer Institute, 10/1990 to 10/1992.
Richard E. Weitzman Memorial Endocrinology Research Award, Harbor-UCLA Medical Center, 1992.
Fellow, David Bruton, Jr. Centennial Professorship in Nutrition, 1992-1993.
Katherine Ross Richards Centennial Teaching Fellowship, 1994-1995.
NIH Special Emphasis Review Panel, 2004.
USDA Grant Reviewer, 2004, 2005, 2007, 2008, 2011.
Junior Science & Humanities Symposium Reviewer, UNCC, February-March 2006.
NIH IPOD Study Section, Temporary Member, 2006.
Outstanding Preceptor, University of North Carolina, 2006
Florida Department of Health Grant Reviewer, 2015, 2018, 2022
Excellence in Teaching and Learning, School of Health Sciences, American Public University System, 2015
Pennsylvania Department of Health Grant Reviewer, 2016, 2018
Department of Defense Grant Reviewer, 2019
Outstanding Professional Poster, SCAN Annual Symposium, 2019
Graduate Excellence in Teaching, American Public University System, 2020
Purdue University Department of Nutrition Science Hall of Fame, 2021

TEACHING EXPERIENCE AND RESPONSIBILITIES

Curriculum Development/Implementation

Summer Research Program for Department of Physiology, LSU Health Sciences Center, New Orleans summer research participants, 2012 to 2015

Six online courses for American Public University, Charles Town, WV: SPHE295, Foundations of Nutrition; SPHE320, Nutrition; SPHS503, Nutrition for Athletic Performance; SPHS511, Critical Thinking; SPHE340, Lifecycle Nutrition; SPHE435, Advanced Nutrition

Online introductory nutrition course for the University of North Carolina, Charlotte

Formal Course Responsibilities

American Public University System, Charles Town, WV

Semester Taught	Course Number	Course Name
January 2016 - present	SPHE295	Foundations of Nutrition (Design and teach. Undergraduate course that starts every eight weeks.)
August 2016 – Fall 2022	SPHE322	Sports Nutrition (Design and teach occasionally. Undergraduate course that starts every eight weeks.)
January 2016 – present	SPHS503	Nutrition for Sports Performance (Design and teach. Graduate course that starts every eight weeks.)
August 2022	SPHE340	Life Cycle Nutrition (Designed. Undergraduate course that starts every eight weeks.)
August 2022 – Winter 2022	SPHE435	Advanced Nutrition (Designed. Teach occasionally. Undergraduate course that starts every eight weeks.)

Lousiana State University Health Sciences Center, New Orleans, LA

Semester Taught	Course Number	Course Name
Fall 2009	PHIS216	Endocrinology (1-hour lecture)
Winter 2014, Winter 2013, Winter 2012, Winter 2010	INTR132	Endocrine Physiology (1-hour lecture)
Winter 2014, Winter 2013	PHTH122	Energy metabolism (1-hour lecture)

Winter 2015, Spring 2010	PHSI 216	Endocrinology (4-hour lecture)
Fall 2016 to present	HLSC2410	Physiology (1-hour lecture; required nursing student class)
Fall 2012 to present	HLSC3410	Pathophysiology (1-hour lecture; required nursing student class)
Fall 2013, Winter/Spring 2015 to present	HLSC6410	Pathophysiology (1-hour lecture; required nursing student class)
Spring 2009 to present	DHY3202	General and Oral Physiology (2-hour lecture; required course for dental hygiene students)
Fall 2017 to present	FMMD210	Nutrition and Health (medical student elective)
Fall 2018, 2019, 2022, 2023	BIOCH100	Biochemistry (2-hour TBL facilitator; required medical student class)
Fall 2018, Spring 2019	Team Up	Facilitator (required class for students across all disciplines at the University)
Fall 2019, Fall 2020, Fall 2021	First-Year Medical Student Orientation	1.5-hour lecture and activities on nutrition wellness (required medical student class)
Spring 2019 to present	MCLIN237	2-hour lecture (required medical student class)

The University of North Carolina at Charlotte

Semester Taught	Course Number	Course Name
Spring 2008	LBST2213	Are You What You Eat? (Undergraduate online course integrating science, society, and technology through nutrition. Course was available to any undergraduate student.)

Winthrop University

Semester Taught	Course Number	Course Name
Winter 2005	NUTR 427	Principles of Clinical Nutrition (Required undergraduate and graduate course)

Louisiana State University, Baton Rouge, LA

Semester Taught	Course Number	Course Name

Fall 2003	HUEC 704	Molecular and Clinical Nutrition I (Team taught; Required graduate course, 2-hour lecture)

The University of Chicago

Quarters Taught	Course Number	Course Name
Fall 1997	HNNB 305	Nutritional Physiology (Required graduate course)
Winter 1998	HNNB 301	Directed Independent Study (Required graduate course)
Spring 1998, Spring 1999	Med 140-302-1	Nutrition in Health and Disease (Required course for medical students, 4-hour group discussion)

The University of Texas at Austin

Semester Taught	Course Number	Course Name
Spring 1993, 1994, 1995, 1996 Fall 1994, 1995	NTR 392	Research Problems (Required graduate research course focusing on nutrition, cancer, and metabolism)
Spring 1993, 1995, 1996 Fall 1993	NTR 307	Introductory Food Science (Required undergraduate course for nutrition majors)
Spring 1993, 1995, 1996 Fall 1993	NTR 107L	Introductory Food Science Laboratory (Required undergraduate course for nutrition majors)
Spring, 1994, 1995, 1996 Fall 1995	NTR 698	Thesis (Required graduate thesis course)
Spring 1994	NTR 390.6	Proteins and Amino Acids (Graduate course)
Fall 1994, 1995, 1996	NTR 311	Introductory Nutrition (Required undergraduate course for nutrition majors and science elective for other majors)
Fall 1995 Spring 1995	NTR 355	Independent Research in Nutrition (Conference course for undergraduates interested in research experience)
Fall 1995	TC660HA	Thesis Course (Required for Plan II Bachelor of Arts undergraduates)

Fall 1995	NTR 999R	Dissertation (Required graduate dissertation research course)

California State University, Long Beach

Semester Taught	Course Number	Course Name
Spring 1984 Fall 1985	NTR 107	Introductory Nutrition (Required undergraduate course for nutrition majors and science elective for other majors)

Departmental/Interdisciplinary Teaching Conferences

1. UCLA, Student Health, Los Angeles, CA, March 1988, "Diet for Cancer Prevention.
2. Harbor-UCLA Medical Center, Nutritional Seminar Series, Torrance, CA, February 1990, "Cancer Cachexia."
3. The University of Chicago GI/Nutrition Research Journal Club, Chicago, IL, May 21, 1999, "The SREBP Fatless Mouse Model."
4. The University of Chicago GI/Nutrition Research Conference, Chicago, IL, June 24, 1999, "The Metabolic Cost of Tumor Burden."
5. The University of Chicago Nutrition Research Conference, Chicago, IL, July 14, 1999, "The Role of Zinc Alpha 2 Glycoprotein in Cachexia."
6. The University of Chicago GI/Nutrition Research Journal Club, Chicago, IL, September 24, 1999, "Glucose Metabolism in Colon Cancer-Bearing Patients."
7. Pennington Biomedical Research Center, Baton Rouge, LA, November 2001, "Adipose Catabolism During Cancer Cachexia."
8. Pennington Biomedical Research Center, Baton Rouge, LA, November 2002, "Lipolysis in Cachexia."
9. The University of North Carolina at Charlotte, April 24, 2006, "Lipolysis in Cancer Cachexia."
10. Louisiana State University, May 2008, "Development of a Model to Develop Functional Foods for Cancer Cachexia."
11. Louisiana State University Health Science Center, August 2008, "Molecular Mechanisms of Adipose Loss in Weight Losing Cancer Patients."
12. Louisiana State University Health Science Center, November 2009, "Work in Progress: Discovering a Lipolysis Factor."
13. Louisiana State University Health Science Center, November 2012, "Nutty Gut: A Work in Progress."
14. Louisiana State University Health Science Center, February 2014, Can Walnuts Slow Tumor Growth and Delay Cancer-Associate Cachexia?
15. Louisiana State University Health Science Center, December 4, 2014, "Gut Microbiota Modulation by Diet and Non-Gut Tumors."
16. Louisiana State University Health Science Center, December 21, 2017, "Interplay of Diet and Tumor with the Gut Microbiome."

Teaching Awards:

Katherine Ross Richards Centennial Teaching Fellowship, University of Texas, Austin, TX, 1994-1995.
Excellence in Teaching and Learning, School of Health Sciences, American Public University System, 2015
Graduate Excellence in Teaching, American Public University System, 2020

Undergraduate, Medical, or Graduate Students Trained:

Claudine Kavanaugh, M.A., Nutritional Sciences, University of Texas, Austin, "Fatty Acid and Cholesterol Synthesis in Tumor-Bearing Rats," 1994.

Roseleen P. Spalding, M.A., Nutritional Sciences, University of Texas, Austin, "Alterations in Bitter Taste Threshold May Reduce Food Intake in Cancer Patients," 1994.

Wendy Bartek, M.A., Nutritional Sciences, University of Texas, Austin, "The Effects of Alcohol and Lovastatin on Cholesterol and Fatty Acid Synthesis in Rat Liver," 1995.

Ting Hwee, M.A., Nutritional Sciences, University of Texas, Austin, "The Effect of Very Low-Calorie Diets of Varying Macronutrient Composition on Protein and Glucose Metabolism During Weight Loss," 1995.

Suzanne Gomar Trunick, M.A., Nutritional Sciences, University of Texas, Austin, "Differential Fatty Acid and Glycerol Metabolism in Tumor and Host," 1996.

Isabel Clark, M.A., Nutritional Sciences, University of Texas, Austin, "Glucose Uptake and Metabolism in Human Breast Epithelial Cells Transfected with the *ras* Oncogene," 1997.

Pam Price, Ph.D., Nutritional Sciences, University of Texas, Austin, "The Role of Skeletal Muscle and Dietary Branched-chain Amino Acids in Tumor Glutamine Metabolism In Vivo," 1997.

Theresa Gresl, Ph.D., University of Wisconsin, "Glucose Regulation in Adult, Male Rhesus Monkeys: Analysis of Intravenous Glucose Tolerance Test Date With Mathematical Modeling," 2002.

Simon Schenk, M.A. Kinesiology, University of Texas, Austin, "The Different Glycemic Responses of All-Bran and Corn Flakes Are Due to Differences in Glucose Uptake, Not Glucose Appearance," 2002.

Ted Zderic, Ph.D., Kinesiology, University of Texas, Austin, "The Effect of Muscle Glycogen on Substrate Utilization During and After Exercise," 2002.

Garrett Hartman, BS, Nursing, Louisiana State University Health Sciences Center, " Intake of Walnuts and Possible Cachexia Prevention," 2018

Jodi Hutak, MS, Sports and Health Science, American Public University, “Energy Drinks Among College Students,” 2020

Margaret Meyers, BS, Nursing, Louisiana State University Health Sciences Center, "Nicotine and the Gut Microbiome," 2020

Anna Whitehead, MD, Medicine, Louisiana State University Health Sciences Center, "Sex-Dependent Effects of Inhaled Nicotine on the Gut Microbiome," 2021

Arden LaGrone, MD, Medicine, Louisiana State University Health Sciences Center, "Who’s Hungry? Medical Student Knowledge of Food Insecurity to Develop a Learning Module for the Family Medicine Clerkship," 2022

Lauren Myer, Medical Student, Louisiana State University Health Sciences Center, “The Effect of Dietary Protein on the Gut Microbiome,” 2023-2024.

Jordan Book, Medical Student, Louisiana State University Health Sciences Center, “Energy Drink Usage by Medical Students,” 2023-2024.

Davina Allen, Medical Student, Louisiana State University Health Sciences Center, Research Elective to meet one of the block requirements, Fall 2023.

Grace Sheets, Medical Student, Louisiana State University Health Sciences Center, “The Effect of Dietary Protein on the Gut Microbiome,” 2023-2024.

Colette Rainey, Summer Research Program, Louisiana State University Health Sciences Center, Summer 2023.

Thesis and Dissertation Committees:

Geffen Ariel, M.A., Nutritional Sciences, California State University, Long Beach, CA, “The Effect of a Ketogenic Diet on Glucose Metabolism in Tumor-Bearing Rats,” 1994.

Maria B. Panayidou, M.A., Nutritional Sciences, University of Texas, Austin, “Parameters of Cell Proliferation in CL-S1 and C1271 Cells Treated with Linoleic, Arachidonic, Eicosapentaenoic, and Docosahexaenoic Acids,” 1994.

Eunhye La, M.A., Nutritional Sciences, University of Texas, Austin, “Effect of Fermented Milk Products on the Promotion Stage of Skin Carcinogenesis,” 1994.

Florence Ulrich Vazquez, M.A., Nutritional Sciences, University of Texas, Austin, “Factors that Affect Zinc Uptake in Human Fibroblasts,” 1994.

Wie Guo Qing, Ph.D., Nutritional Sciences, University of Texas, Austin, "Inhibitory Effect of 2,6-Dithiopurine on Benzo(a)pyrene-induced Forestomach Cancer in Mice," 1996.

Jeff Horowitz, Ph.D., Kinesiology, University of Texas, Austin, "The Effect of Different Triglyceride Reesterification and Substrate Oxidation During Exercise." 1996.

Ya-yuan Chen, M.A., Nutritional Sciences, University of Texas, Austin, "Zinc Uptake in Breast Epithelial Cells is Affected by Cholesterol Depletion," 1996.

Theresa Marie Chandler, Ph.D., Kinesiology, University of Texas, Austin, "The Influence of Progressive High Resistance Training and Nutritive Supplements on Muscle Development," 1997.

Catherine Chin-Chance, Doctoral Candidate, The Committee on Human Nutrition and Nutritional Biology, Biological Sciences Division, The University of Chicago, "Plasma Leptin Reflects Energy Balance," 1997-2000.

Ricardo Mora-Rodriguez, Ph.D., Kinesiology, University of Texas, Austin, "Epinephrine Stimulated Lipolysis and Glucose Production in Exercise," 1998.

Tom Berton, Ph.D., Nutritional Sciences, University of Texas, Austin, "The Effect of Dietary Polyunsaturated Fatty Acids on Ultraviolet Light Induced Tumorigenesis in Mouse Epidermis," 1998.

Karla Temple, Pre-doctoral Student, The Committee on Human Nutrition and Nutritional Biology, Biological Sciences Division, The University of Chicago, "The Development of Insulin Resistance in Fatless Mice," 1998-2000.

Tim Carlson, Pre-doctoral Student, The Committee on Human Nutrition and Nutritional Biology, Biological Sciences Division, The University of Chicago, 1999-2000.

Ted Zderic, Ph.D., Kinesiology, University of Texas, Austin, "The Effect of Muscle Glycogen on Substrate Utilization During and After Exercise," 2002.

Joy. R. Kohlmaier, Ph.D., Psychology, Louisiana State University, Baton Rouge, "A Path Analysis of Binge Eating and Obesity in African Americans: Acculturation, Racism, Emotional Distress, Binge Eating, Body Dissatisfaction, Attitudes Toward Obesity, Dietary Restraint, Dietary Fat Intake, and Physical Activity," 2003.

Post-Doctoral or Post-Residency Fellows Trained:

Naveed Ismail, ECMO Fellow, The University of Chicago, School of Medicine

RESEARCH AND SCHOLARSHIP

Grants and Contracts:

Funded

2024 American Public University System, *The Effect of Increasing Dietary Protein on the Gut Microbiota*, Principal Investigator. ($10,000)

2023 Research Dietetic Practice Group of the Academy of Nutrition and Dietetics. *The Effect of Increasing Dietary Protein and Purines on the Gut Microbiota*. Principal Investigator. ($20,000).

2023 American Public University System, *The Effect of Increasing Dietary Protein on the Gut Microbiota*, Principal Investigator. ($10,500)

2022 American Public University System, *Unique and Overlapping Gut Microbiome Correlates of Trait Mental and Physical Energy and Fatigue,* Principal Investigator. ($15,000)

2021 American Public University System, *Muscle Builder's Gut Microbiome,* Principal Investigator. ($5,500)

2018 American Public University System, *Muscle Men's Gut Microbiome,* Principal Investigator. ($20,000)

2013 American Public University System, *Energy Intake of Online Students,* Principal Investigator. ($1,000)

2011-2013 American Institute for Cancer Research & California Walnut Commission: *Can Walnuts Slow Tumor Growth and Delay Cancer-Associated Cachexia?* Principal Investigator. (10%, $100,000)

2013-2014 California Walnut Commission: *Walnut Consumption and Gut Microflora.* Principal Investigator. ($20,000)

Journal Publications:

Refereed

1. **Byerley, L.O.,** and Kirksey, A. Effect of different levels of vitamin C intake on the vitamin C content in human milk and the vitamin C intake of breastfed infants. *Am J Clin Nutr* 41:665-671, 1985. Citations: 66
2. Heber, D., **Byerley, L.O.** and Chlebowski, R.T. Metabolic abnormalities in the cancer patient. *Cancer* 55:225-229, 1985. Citations: 131
3. Heber, D., **Byerley, L.O.**, Chi, J., Grosvenor, M., Bergman, R.N., Coleman, M. and Chlebowski, R.T. Pathophysiology of malnutrition in the adult cancer patient. *Cancer* 58:1867-1873, 1986. Citations: 131
4. Heber, D., McCarthy, W.J., Ashley, J., and **Byerley, L.O.** Weight reduction and breast cancer prevention by restriction of dietary fat and calories: rationale, mechanisms, and interventions. *Nutrition* 5:149-154, 1989. Citations: 5
5. Tayek, J., Heber, D., **Byerley, L.O.**, Steiner, B., Rajfer, J. and Swerdloff, R.S. Nutritional and metabolic effects of gonadotropin-releasing hormone agonist

treatment for prostate cancer. *Metabolism* 39:1314-1319, 1990. Citations: 89 https://www.metabolismjournal.com/article/0026-0495(90)90190-N/pdf

6. **Byerley, L.O.**, Heber, D., Bergman, R.N., Dubria, M. and Chi, J. Insulin action and metabolism in head and neck cancer patients. *Cancer* 67:2900-2906, 1991. Citations: 23
7. Lee, W.N.P., Edmond, J., **Byerley, L.O.** and Bergner, E.A. Mass isotopomer analysis: theoretical and practical considerations. *Biol Mass Spectr* 20: 451-458, 1991. Citations: 302
8. Heber, D., **Byerley, L.O.** and Tchekmedyian, J. Hormonal and metabolic abnormalities in the malnourished cancer patient: effects on tumor-host interaction. *JPEN* 16:60S-64S, 1992. Citations 54 https://aspenjournals.onlinelibrary.wiley.com/doi/10.1177/014860719201600605
9. **Byerley, L.O.**, Vu, T., Alcock, N.W., Hoffman, A.R. and Starnes, H.F. Sepsis-induced cascade of cytokine mRNA expression: correlation with tissue-specific amino acid uptake. *Am J Physiol* 261: E728-E735, 1992. Citations: 55; Altmetric: 33 https://journals.physiology.org/doi/abs/10.1152/ajpendo.1992.262.5.E728?rfr_dat=cr_pub++0pubmed&url_ver=Z39.88-2003&rfr_id=ori%3Arid%3Acrossref.org
10. **Byerley, L.O.**, Lee, W.N.P., Swerdloff, R.S., Buena, F., Nair, K.S., Buchanan, T.A., Goldberg, R., Steiner, B. and Bhasin, S. Effect of modulating serum testosterone levels in the normal male range on protein, glucose and lipid metabolism in men: implications for testosterone replacement therapy. *Endocr J* 1:252-253, 1993. Citations: 23
11. Lee, W.N.P., Bassilian, S., Ajie, H.O., Schoeller, D.A., Edmond, J., Bergner, E.A., and **Byerley, L.O.** In vivo measurement of fatty acids and cholesterol synthesis using D2O and mass isotopomer analysis. *Am J Physiol* 266: E699-E708, 1994. Citations: 157; Altmetric: 117 https://journals.physiology.org/doi/abs/10.1152/ajpendo.1994.266.5.E699
12. Lee, W.N.P., Bassilian, S., Guo, Z.K., Schoeller, D., Edmond, J., Bergner, E.A., and **Byerley, L.O.** Measurement of fractional lipid synthesis using deuterated water (2H2O) and mass isotopomer analysis. *Am J Physiol* 266: E372-E383, 1994. Citations: 140; Altmetric: 102 https://journals.physiology.org/doi/abs/10.1152/ajpendo.1994.266.3.E372?rfr_dat=cr_pub++0pubmed&url_ver=Z39.88-2003&rfr_id=ori%3Arid%3Acrossref.org
13. Lee, W.N.P., Byerley, L.O., Bassilian, S., Ajie, H.O., Clark, I., Edmond, J., and Bergner, E.A. Isotopomer study of lipogenesis in human hepatoma cells in culture: contribution of carbon and hydrogen atoms from glucose. *Analyt Biochem* 226:100-112, 1995. Citations: 65 https://www.sciencedirect.com/science/article/abs/pii/S0003269785711979?via%3Dihub
14. Ajie, H.O., Conner, M.J., Lee, W.N.P., Bassilian, S., Bergner, E.A., and **Byerley, L.O.** In vivo study of the biosynthesis of long-chain fatty acids using deuterated water. *Am J Physiol* 269: E247-E252, 1995. Citations: 50;

Altmetric: 28
https://journals.physiology.org/doi/abs/10.1152/ajpendo.1995.269.2.E247?rfr_dat=cr_pub++0pubmed&url_ver=Z39.88-2003&rfr_id=ori%3Arid%3Acrossref.org

15. Bagga, D., **Byerley, L.O.**, Koziol, B.J., Glick, Z., Ashley, J.M., and Heber, D. Adipose tissue and the effects of fat and calories on breast tumorigenesis in rats. *J Nutr Biochem* 6:667-672, 1995. Citations: 3 https://www.sciencedirect.com/science/article/abs/pii/0955286395001441
16. **Byerley, L.O.**, and Heber, D. Metabolic effects of triiodothyronine replacement during fasting in obese subjects. *J Clin Endocr and Metab,* 81:968-976, 1996. Citations: 36; Views: 887; Altmetrics 1 https://academic.oup.com/jcem/article/81/3/968/2649559?login=false
17. Horowitz, J.F., Mora-Rodriguez, R., **Byerley, L.O.**, Coyle, E.F. Lipolytic suppression following carbohydrate ingestion limits fat oxidation during exercise. *Am J Physiol* 273: E768-E775, 1997. Citations: 443; Altmetric: 65 https://journals.physiology.org/doi/full/10.1152/ajpendo.1997.273.4.E768?rfr_dat=cr_pub++0pubmed&url_ver=Z39.88-2003&rfr_id=ori%3Arid%3Acrossref.org
18. Tueting, J.L., **Byerley, L.O**., Chwals, W.J. Anabolic recovery relative to the degree of prematurity following acute injury in neonates. *J Ped Surg* 34:13-17, 1999. Citations: 9 https://www.jpedsurg.org/article/S0022-3468(99)90220-8/pdf
19. Horowitz, J.F., Mora-Rodriguez, R., **Byerley, L.O.**, Coyle, E.F. Substrate metabolism when subjects are fed carbohydrate during exercise. *Am J Physiol* 276: E828-E835, 1999. Citations: 130; Altmetric: 15 https://journals.physiology.org/doi/full/10.1152/ajpendo.1999.276.5.E828?rfr_dat=cr_pub++0pubmed&url_ver=Z39.88-2003&rfr_id=ori%3Arid%3Acrossref.org
20. Horowitz, J.F., Mora-Rodriguez, R., **Byerley, L.O**., and Coyle, E.F. Pre-exercise medium-chain triglyceride ingestion does not alter muscle glycogen use during exercise. *J Appl Physiol* 88: 219-225, 2000. Citations: 73; Altmetric: 3 https://journals.physiology.org/doi/full/10.1152/jappl.2000.88.1.219?rfr_dat=cr_pub++0pubmed&url_ver=Z39.88-2003&rfr_id=ori%3Arid%3Acrossref.org
21. Mora-Rodriguez, R., Hodgkinson, B.J., **Byerley, L.O.**, and Coyle, E.F. Effects of beta-adrenergic receptor stimulation and blockade on substrate metabolism during submaximal exercise. *Am J Physiol* 280: E752-760, 2001. Citations: 59; Altmetric: 27 https://journals.physiology.org/doi/full/10.1152/ajpendo.2001.280.5.E752?rfr_dat=cr_pub++0pubmed&url_ver=Z39.88-2003&rfr_id=ori%3Arid%3Acrossref.org
22. Mouat, M.F., Greenspan, P., **Byerley, L.O.**, Grider, A. Zinc uptake into MCF-10A cells is inhibited by cholesterol depletion. *J Nutr Biochem* 14:74-80, 2003. Citations: 11 https://www.sciencedirect.com/science/article/abs/pii/S0955286302002504?via%3Dihub

23. Schenk, S., Davidson, C.J., Zderic, T.W., **Byerley, L.O.**, Coyle, E.F. Different glycemic index of breakfast cereals is not due to glucose entry into blood but to glucose removal by tissue. *Am J Clin Nutr* 78:742-748, 2003. Citations: 157
24. Gresl, T.A., Colman, R.J., Havighurst, T.C., **Byerley, L.O.**, Allison, D.B., Kemnitz, J.W. Insulin sensitivity and glucose effectiveness from three minimal models: effects of energy restriction and body fat in rhesus monkeys. *Am J Physiol* 285(6): R1340-54, 2003. Citations: 40; Altmetric: 30 https://journals.physiology.org/doi/full/10.1152/ajpregu.00651.2002?rfr_dat=cr_pub++0pubmed&url_ver=Z39.88-2003&rfr_id=ori%3Arid%3Acrossref.org
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57. Smith, T.J., Pikosky, M., **Byerley, L.O.,** Grediagin, A., Karl, J.P., Caruso, C., McClung, H., Glickman, E., Young, A.J. Aerobic fitness level does not modulate changes in whole-body protein turnover produced by unaccustomed increases in energy expenditure. Med Sci Sports Exerc: 39(5): Supplement: S83, May 2007.
58. Pikosky, M.A., Smith, T.J., **Byerley, L.O.,** Grediagin, A., Castaneda-Sceppa, C., Karl, J.P., Caruso, C., McClung, H.L., Glickman, E.L., Young, A.J. Level of dietary protein does not impact whole-body protein turnover during an exercise-induced energy deficit. Med Sci Sports Exerc: 39(5) Supplement: S83, May 2007.
59. **Byerley, L.O.,** Lee, S.O., Culberson, C., Redmann, S., Clemens, M., Lively, M. A novel circulating factor promotes body fat loss early in the development of cachexia in the methylcholanthrene (MCA)-induced sarcoma bearing rat. FASEB J. 2009 23:897.24
60. **Byerley, L.O.,** and Lively, M.O. Mining serum for a lipolysis factor. FASEB J. 2010:24:4059.

61. **Byerley, L.O.,** Lorenzo B. Walnuts slow cancer-associated weight loss. Proceedings of the American Institute for Cancer Research, 2013.
62. **Byerley, L.O.,** Ponder, M., Lorenzo, B., Banks, S., Taylor, C., Luo, M., Blanchard, E., Welsh, D. Walnut consumption changes the relative abundance of bacteriodetes and firmicutes in the gut. FASEB J. 2015:29(1):1006.1
63. **Byerley, L.O.,** Gardner, J. Summer Research Program Increases Student Understanding of Biomedical Research. Academy Bulletin, 2015
64. **Byerley LO**, Banks S, Lorenzen B, Hardman E. Walnuts Slow Cancer-Associated Weight Loss But Not the Growth of a Transplantable Tumor. LCRC meeting agenda. March 2016
65. **Byerley, L.O.,** Reppel, J.E., Pahng, A.R., Edwards, S. Omega-3 dietary fatty acids improve spatial learning and memory but do not alter the escalation of alcohol drinking. FASEB J. 2016
66. **Byerley, L.O.,** Banks, S., Lorenzo, B., Hardman, E. Walnuts slow cancer-associated weight loss but not tumor growth in a transplantable tumor line. FASEB J. 2016
67. Byerley, L.O., Ondrak, K., Galivan, K.G. Dietary Quality of Muscle Builders Who Do Or Do Not Consume A Protein Supplement: A Pilot Study. SCAN Spring Program, April 2019.
68. **Byerley, L.O**., Lorenzen, B., Hartman, W.G., Keenan, M.J., Page, R., Blanchard, E., Luo, M., Taylor, C. Dietary Walnuts Effect on the Gut Microbiome of Cachectic Tumor-Bearing Rats. American Insitute for Cancer Research Conference, May 2019.
69. Chang, S., Lorenzen, B., Hartman, W.G., Keenan, M., Page, R., Blanchard, E., Luo, M., Taylor, C., Byerley. L.O. Dietary Walnuts Effect on the Gut Microbiome of Cachectic Tumor-Bearing Rats. *Curr Opin Support Palliat Care*. 2021 Mar 1;15(1):50-74
70. **Byerley, L.O**., Ondrak, K., Gallivan, K. Dietary Quality of Muscle Builders Who Do or Do Not Consume a Protein Supplement. Integrative Physiology of Exercise, 2020
71. Whitehead, A., Meyers, M., Taylor, C.M., Luo, M., Yue, X., **Byerley, L.O**. Sex-dependent effects of nicotine on the gut microbiome. ADACE Bi-Annual Retreat. 2020.
72. Whitehead, A., Meyers, M., Taylor, C.M., Luo, M., Yue, X., **Byerley, L.O**. Sex-Dependent Effects of Nicotine on the Gut Microbiome. Experimental Biology 2021
73. Primeaux, S.D., **Byerley, L.O.,** Rosen, E., Ferguson, T.F., Welsh, D., Molina, P.E. Effects of At-Risk and Recent Alcohol Use on Diet Quality among People Living with HIV (PLWH). Experimental Biology 2021.
74. Byerley, LO, Ondrak, K, Gallivan, K, Luo, M, Taylor, CM. The Effect of Protein Supplementation on the Gut Microbiome of Muscle Builders. *Journal of the Academy of Nutrition and Dietetics* Vol. 121 Issue 9 SupplementA33 Published in issue: September 2021

Research Review Committee:

NIH Special Emphasis Review Panel, 2004.
USDA Grant Reviewer, 2004, 2005, 2007, 2008, 2011
Junior Science and Humanities Symposium Reviewer, UNCC, February-March 2006.
NIH IPOD Study Section, Temporary Member, 2006.
Florida Department of Health Grant Reviewer, 2015, 2020, 2022
Pennsylvania Department of Health Grant Reviewer, 2016, 2018
Research Dietetic Practice Group Award Reviewer, 2015, 2016, 2017
Academy of Nutrition and Dietetics, 2013, 2014, 2015, 2016, 2017
American Society of Nutrition, 2014, 2015, 2016, 2017
The University of Texas, San Antonio, 2019
Walnut Commission, 2018
Congressionally Directed Medical Research Program for the Army, 2019

Scientific Presentations:

Local

1. Ismail, N., **Byerley, L.O.,** Cheng, A., Schreiber, M., Chwals, W. De novo lipogenesis (DNL) in premature babies. *The Tenth Annual Young Investigators Biomedical Research Symposium*. The University of Chicago, April 22, 1999.
2. **Byerley, L.O**., Gardner, J. Summer Research Program Increases Student Understanding of Biomedical Research. *Academy Bulletin*, 2015

National

1. **Olson, L.L.,** and Kirksey, A. Effects of different levels of ascorbic acid supplementation on the vitamin C content in human milk and on the vitamin C intake of infants. Federation Proceedings 40(3): 877, 1981.
2. Larsen, C., **Byerley, L.O.,** Heber, D. and Chlebowski, R.T. Factors contributing to altered taste sensations in cancer patients. JPEN 6(6):575, 1982.
3. Heber, D., Chlebowski, R.T., Henson, L.C., Larsen, C., **Byerley, L.O.** and Block, J.B. (1982) Increased protein turnover in lung cancer. JPEN 6(6):575, 1982.
4. **Byerley, L.O.,** and Kirksey, A. The effect of vitamin C intake on the vitamin C content of human milk and vitamin C intake of infants. Federation Proceedings 41(3):473, 1982.
5. Heber, D., **Byerley, L.O.** and Chlebowski, R.T. Plasma amino acids and carbohydrate metabolism in malnourished lung cancer patients. Clin Res 32(2):629A, 1984.
6. **Byerley, L.O.,** Larsen, C., Chlebowski, R.T. and Heber, D. Dietary intake and nutrient analysis in lung and colon cancer patients: evidence for deficiencies. Federation Proceedings 43(4), 855, 1984.
7. **Byerley, L.O.,** Heber, D., Grosvenor, M., Kaplan, K. and Henson, L.C. Lack of effect of physiologic T3 replacement on protein breakdown in fasted obese subject. Clin Res 33(2): 270A, 1985.

8. **Byerley, L.O.,** Chi, J., Grosvenor, M., Bergman, R.N., Chlebowski, R.T. and Heber, D. Insulin resistance and failure of anabolism in patients with localized cancer. Federation Proceedings 45(3):1078, 1986.
9. **Byerley, L.O.,** Chi, J., Moley, P., Grosvenor, M., Alvey, D., Dubra, M., Bergman, R.N., and Heber, D. Resistance to insulin action in malnourished patients with localized cancer. Clin Res 34(2):388A, 1986.
10. **Byerley, L.O.,** and Kirksey, A. Diurnal changes in human milk and urinary vitamin C content following ascorbic acid supplements. Federation Proceedings 45(3):364, 1986.
11. **Byerley, L.O.,** Jones, M. and Heber, D. Abnormalities in lipid and glucose metabolism in tumor-bearing rats prior to weight loss. FASEB J 2(4): A859, 1988.
12. **Byerley, L.O.,** Chi, J., Bergman, R. and Heber, D. Increased insulin clearance in malnourished patients with localized head and neck cancer. Clin Res 36(3):354A, 1988.
13. **Byerley, L.,** Swerdloff, R.S., Lee, W.P., Buchanan, T.A., Steiner, B.S., Nair, S.K. and Bhasin, S. Effects of manipulating testosterone levels in the normal male range on protein, carbohydrate and lipid metabolism in man: implications for testosterone replacement therapy. Clin Res 41:83A, 1993.
14. **Byerley, L.O.,** Innis, G., Bassilian, S., Bergner, E.A. and Lee, W.N.P. Lactate metabolism in non-cachectic and cachectic rats. Proceedings of the American Association for Cancer Research 34:196, 1993.
15. **Byerley, L.O.,** Bassilian, S., Bergner, E.A. and Lee, W.N.P. Use of D2O to quantitate cholesterol and fatty acid synthesis in tumor-bearing rats. FASEB J 7: A288, 1993.
16. **Byerley, L.O.,** and Sullivan, M. Interrelationship between tumor and host glucose metabolism. FASEB J 8:942A, 1994.
17. Price, P.T., and **Byerley, L.O.** Development of a system for measuring tumor glutamine metabolism in vivo using [1,2 13C]leucine. FASEB J 9: A994, 1995.
18. Gomar, I.C.S., Sullivan, M.P. and **Byerley, L.O.** Interrelationship between host mobilization of fatty acids and tumor utilization of fatty acids. FASEB J 9: A993, 1995.
19. Horowitz, J.F., Mora-Rodriguez R., **Byerley L.O.,** and Coyle E.F. Lipolytic suppression following carbohydrate ingestion limits fat oxidation during exercise. Med Sci Sports Exerc 28(5): S74, 1996.
20. Grider, A., Chen, Y. and **Byerley, L.O.** Zinc transport in the MCF10A breast epithelial cell line. FASEB J 10: A530, 1996.
21. Kavanaugh, C., Rufo, C., and **Byerley, L.O.** Fatty acid and cholesterol synthesis at different stages of tumor development. FASEB J 10: A497, 1996.
22. Clark, I., and **Byerley, L.O.** Glucose metabolism in breast epithelial cells transformed by the ras oncogene. FASEB J 10: A491, 1996.
23. Ting, H., **Byerley, L.O.,** and Heber, D. Macronutrient composition of very-low-calorie diets differentially affects protein and glucose metabolism during weight loss. FASEB J 10: A501, 1996.

24. Bartek, W., Cella, L., Willis, R., Loop, R., and **Byerley, L.O.** Hepatic fatty acid and cholesterol synthesis in rats chronically treated with ethanol. FASEB J 10: A737, 1996.
25. **Byerley, L.O.,** Bartek, W., Willis, R., and Loop, R. Combined effect of lovastatin and ethanol on hepatic fatty acid and cholesterol synthesis. FASEB J 10:A800, 1996.
26. Clark, I., **Byerley, L.O.,** and Younes, M. Glucose uptake and expression of Glut1 are increased in human breast epithelial cells transfected with the ras oncogene. Proceedings of the American Association for Cancer Research Price, P.T., Whitsitt, A. and Byerley, L.O. (1996) Food intake and growth rate of rats fed a purified diet high in branched-chain amino acids. FASEB J 10, A737.
27. **Byerley, L.O.,** Hinojos, C., Sullivan M, and Price, P.T. The glucose cost of tumor burden in pre-cachectic tumor-bearing rats. FASEB J 10: A737, 1999.
28. **Byerley, L.O.,** and Price, P.T. A branched-chain amino acid (BCAA)-rich diet reduces glutamine appearance in the pre-cachectic tumor-bearing (T.B.) host. FASEB J 13: A9201999.
29. Price, P.T., and **Byerley, L.O.** Glutamine appearance is increased in pre-cachectic tumor-bearing rats. FASEB J 13: A585, 1999.
30. Elmishad A, Layman R., Clark, I., Younes, M., Boss, G., **Byerley, L**. Mutation of a single oncogene mimics the changes in glucose metabolism observed in tumor cells. Proceedings of the American Association for Cancer Research, 40:506, 1999.
31. Layman, R., Elmishad, A., Kracklauer, M., Boss, G., **Byerley, L.** Fat metabolism is altered by the mutation of a single oncogene. Proceedings of the American Association for Cancer Research, 40:378, 1999.
32. Wei, A., Ismail, N., Elmishad, A., **Byerley, L.O.,** Chwals, W.J. The rabbit neonate as a model for metabolic stress. Shock Congress 1999.
33. Grider, A., Mouat, M., Temple, K., Cheng, A., Han, Y., Graves, R.A., **Byerley, L.O.** Plasma protein changes with progression of cancer cachexia. FASEB J 14: A473, 2000.
34. Temple, K.A., Cheng, A., Han, Y., Graves, R.A., **Byerley, L.O.** Aberrant leptin signaling in cancer cachexia. FASEB J 14: A475, 2000.
35. **Byerley, L.O.,** Toth, B.R., Penn, D., Schmidt-Sommerfield, E. A new gas chromatography-combustion-isotope ratio mass spectrometry (GC-C-IRMS) method to quantitate ketone body (K.B.) turnover in very low birth weight (VLBW) infants. FASEB J, 2003.
36. **Byerley, L. O.,** Wiles, J.E, Hebert, S.L and Redman, S.M. Changes in the hormone milieu with cancer-driven adipose loss. FASEB J, 2004.
37. **Byerley, L.O.,** Allen, L.D., Huet-Hudson, Y., Dreau, D. Esterification of estrone modulates breast cell proliferation in vitro. American Association for Cancer Research 2007.
38. **Byerley, L.O.,** Lee, S.O., Culberson, C., Redmann, S., Clemens, M., Lively, M. A novel circulating factor promotes body fat loss early in the

development of cachexia in the methylcholanthrene (MCA)-induced sarcoma bearing rat. FASEB J. 2009:23:897.24

39. **Byerley, L.O.,** and Lively, M.O. A novel circulating factor promotes body fat loss early in the development of cachexia in the methylcholanthrene (MCA)-induced sarcoma bearing rat. American Institute for Cancer Research, October 2009.
40. **Byerley, L.O.,** and Lively, M.O. Mining serum for a lipolysis factor. FASEB J. 2010:24:4059.
41. **Byerley, L.O.,** and Lively, M.O. Signaling through ATGL, not HSL, promotes cachexia-associated lipolysis in the MCA-sarcoma bearing rat. American Institute for Cancer Research, October 2010.
42. **Byerley, L.O.,** Lorenzo B. Walnuts slow cancer-associated weight loss. American Institute for Cancer Research, November 2013.
43. **Byerley, L.O.,** Ponder M., Lorenzo B., Banks S., Taylor C, Luo M, Blanchard E, Welsh DA. Walnut Consumption Changes the Relative Abundance of Bacteroidetes and Firmicutes in the Gut. FASEB J. 2015.
44. **Byerley, L.O.,** Reppel, J.E., Pahang, A.R., Edwards, S. Omega-3 dietary fatty acids improve spatial learning and memory but do not alter the escalation of alcohol drinking. FASEB J. 30: 679.5, 2016
45. **Byerley, L.O.,** Banks, S., Lorenzo, B., Hardman, E. Walnuts slow cancer-associated weight loss but not tumor growth in a transplantable tumor line. FASEB J. 30: 1167.4, 2016
46. **Byerley, L.O.** Changing Gut Microbial Communities. Arkansas Academy of Nutrition and Dietetics. April 20, 2018
47. **Byerley, L.O.** A Snapshot in the Life (&Gut Microbiome) of Muscle Builders. American Public University System. December 5, 2018
48. **Byerley, L.O.**, Ondrak, K., Gallivan, K., Luo, M., Taylor, C.M. The Effect of Protein Supplementation on the Gut Microbiome of Muscle Builders. *Journal of the Academy of Nutrition and Dietetics* Vol. 121 Issue 9 SupplementA33 Published in issue: September 2021
49. Whitehead, A., Meyers, M., Taylor, C., Luo, M., Yue, X., **Byerley, L.O.** Sex-Dependent Effects of Nicotine on the Gut Microbiome. *The FASEB Journal* Volume 35, Issue S1, 2021.
50. Primeaux, S.D., **Byerley, L.O.**, Rosen, E., Ferguson, T.F., Welsh, D., Molina, P.E. Effects of At-Risk and Recent Alcohol Use on Diet Quality among People Living with HIV (PLWH). *The FASEB Journal* Volume 35, Issue S1, 2021.

Invited Presentations and Seminars:

Plenary lectureships or refresher courses at professional meetings/symposia

1. California Dietetic Association Meeting, Los Angeles, CA, May 1982, "Factors contributing to altered taste sensations in cancer patients."
2. California Dietetic Association, Los Angeles, CA, February 1983, "Computer Applications for the Institution."

3. California Dietetic Association Meeting, San Diego, CA, May 1983, "Effect of ascorbic acid supplementation on the vitamin C content of human milk infant intake."
4. California Dietetic Association Meeting, San Diego, CA, May 1983. "Carbohydrate and protein metabolism abnormalities in lung cancer."
5. American Cancer Society, Los Angeles Coastal Cities Unit, Los Angeles, CA, April 1986, "A Cancer Prevention Diet Guide."
6. California Dietetic Association Meeting, Los Angeles, CA, May 1987, "The UCLA Weight Management Program."
7. American Dietetic Association Meeting, Atlanta, GA, October 1987, "The Effects of Fruit Juice Soft Drink Compared to Diet Soft Drinks on Weight Loss in Obese Women."
8. California Dietetic Association, Los Angeles District, Los Angeles, CA, February 1988, "Current Research: Nutritional Strategies for Cancer Management at New Perspectives in Nutrition Management."
9. The University of Texas-M.D. Anderson Cancer Center, Texas Carcinogenesis Meeting IX, Houston, TX, February 1993, "Effect of Diet on Tumor Substrate Utilization: Model for Study of Chemoprevention Strategies."
10. The University of Texas, Austin, 36th Annual Nutrition and Food Service Management Seminar, Austin, TX, March 23-25, 1993, "Use of Mass Spectrometer in Nutrition Research."
11. The University of Illinois at Chicago, Graduate Nutrition Seminar Series, Chicago, IL, December 1, 1997, "Differential Substrate Utilization in Tumor and Host."
12. The University of Chicago Charles Huggins Annual Research Conference, Chicago, IL, May 2, 1998, "Glutamine Appearance Is Increased in Pre-cachectic Tumor-Bearing Rats."
13. The University of Chicago Animal Resource Center, Chicago, IL, October 15, 1998, "Animal Models in the Study of Metabolism."
14. The University of Chicago Biomedical Research Cluster Conference, Chicago, IL, November 24, 1998, "Tumor and Host Metabolism."
15. The University of Chicago Charles Huggins Annual Research Conference, Chicago, IL, May 22, 1999, "Fat Metabolism Is Altered by the Mutation of a Single Oncogene."
16. The University of Chicago Charles Huggins Annual Research Conference, Chicago, IL, May 22, 1999, "The Rabbit Neonate as a Model for Metabolic Stress."
17. The University of Chicago Charles Huggins Annual Research Conference, Chicago, IL, May 22, 1999, "The Glucose Cost of Tumor Burden in Pre-cachectic Tumor-Bearing Rats."
18. Academy of Nutrition and Dietetics, Nashville, TN, October 2015, "Effective Nutrition Worksite Wellness Strategies for Resistant Populations" (Invited: moderator)
19. Academy of Nutrition and Dietetics, Boston, MA, October 2016, "The Gut-Brain Highway: Can Traffic Be Regulated by Diet?" (Planned session)

20. Academy of Nutrition and Dietetics, Boston, MA, October 2016, "Addressing Unspoken Alcohol Use – Health, Calories, Assessment, and Counseling" (Planned and moderated session)
21. Academy of Nutrition and Dietetics, Chicago, IL, October 24, 2017, "How Nutritional Genomics Affects You in Nutrition Research and Practice" (Invited moderator)
22. Research Dietetic Practice Group National Symposium, Chicago, IL, October 21, 2017, "Gut Microbiome Basics and Translation Into Consumer Products" (Planned and moderated session)
23. American Public University System, Charles Town, WV, January 26, 2018, "Plagiarism: Sometimes It Is Cheating; Many Times It Is an Opportunity to Teach"
24. Arkansas Academy of Nutrition and Dietetics, Little Rock, AK, April 20, 2018, "Changing Gut Microbial Communities"
25. American Public University System, Charles Town, WV, December 5, 2018, "A Snapshot in the Life (& Gut Microbiome) of Muscle Builders."
26. American Public University System, Charles Town, WV, October 28, 2022, "Dietary Protein Intake and Your Gut Microbiome."
27. American Public University System, Charles Town, WV, April 21, 2023, "Food for Thought."
28. American Public University System, Charles Town, WV, May 11, 2023, "Gut Microbiome Protein Supplement Study."

Visiting professorships or seminars

1. American Federation of State, County and Municipal Employees, Los Angeles, CA, January 1987, "Nutrition and Women's Health."
2. City of Hope, Faculty Rational Therapeutics Conference, Costa Mesa, CA, June 1987, "Diet and Cancer: Are They Related?"
3. San Bernadino County Department of Public Health, San Bernadino, CA, March 1988, "Nutrition Support of the Cancer Patient."
4. Texas A & M University, Graduate Faculty Nutrition Seminar Series, College Station, TX, April 5, 1994, "Differential Substrate Metabolism in Tumor and Host."
5. The University of Georgia, Department of Nutritional Sciences, Athens, GA, February 24, 1999, "The Metabolic Cost of Tumor Burden: Does It Lead to Cancer Cachexia?"
6. Purdue University, Department of Foods and Nutrition, West Lafayette, IL, September 17, 1999, "The Metabolic Cost of Tumor-Burden: Can It Promote Cachexia?"
7. Louisiana State University, Baton Rouge, LA, March 2002, "The Metabolic Derangements of Cancer-Induced Cachexia."
8. Marshall University, Department of Biochemistry and Molecular Biology, Huntington, WV, September 15, 2003, "Lipid Signaling in Cancer Cachexia."
9. Wake Forest University/Bowman Gray Medical Center, Cancer Biology, Wake Forest, NC, July 2, 2004, "Molecular Mechanisms of Adipose Loss in Cancer Cachexia."

10. Duke University, Sarah W. Stedman Nutrition and Metabolism Center, November 9, 2004, "Study of Metabolomics with Stable Isotopes."
11. The University of South Carolina, Arnold School of Public Health, Visiting Scholar, Columbia, SC, December 6, 2004, "Altered States of Lipid Metabolism: Stable Isotope and Molecular Studies with a Special Focus on Cachexia."
12. The University of North Carolina at Charlotte, October 3, 2005, "Metabolomics and Stable Isotopes."
13. The University of North Carolina at Charlotte, April 24, 2006, "Lipolysis in Cancer Cachexia."
14. Purdue University, July 2007, "Identifying a Circulating Modulator of Lipolysis Using a Cancer Model."
15. Louisiana State University, May 2008, "Development of a Model to Develop Functional Foods for Cancer Cachexia."
16. Louisiana State University Health Sciences Center, August 2008, "Molecular Mechanisms of Adipose Loss in Weight Losing Cancer Patients."
17. Louisiana State University Health Sciences Center, November 2009, "Work in Progress: Discovering a Lipolysis Factor."
18. Allied Health Cancer Grand Rounds for Mary Bird Perkins Cancer Center and St. Tammany Parish Hospital. May 11, 2011, "Cancer-related cachexia: What does muscle mean to you?"
19. Louisiana State University Health Science Center, November 2012, "Nutty Gut: A Work in Progress."
20. Louisiana State University Health Science Center, December 4, 2014, "Gut Microbiota Modulation by Diet and Non-Gut Tumors."
21. Louisiana State University Health Science Center, February 2014, Can Walnuts Slow Tumor Growth and Delay Cancer-Associate Cachexia?
22. Louisiana State University Health Science Center, September 21, 2017, "Interplay of Diet and Tumor with the Gut Microbiome."

Editorial Posts and Activities:

Journal editorships or associate editorships

Editorial Board, *Food and Nutrition Sciences Journal*
Editorial Board, *Nutrients*
Editorial Board, *International Journal of Environmental Research and Public Health*
Editor for *Nutrients* special edition, "Gut Microbiome: Profound Implications for Diet and Health."
Editor for Nutrients special edition, "Lifestyle, the Gut Microbiome, and Our Well-Being."

Reviewer status

Manuscript reviewer for *Biomarkers, Journal of the Academy of Nutrition and Dietetics*, *Nutrition and Cancer*, *Journal of Biological Chemistry, American Journal of Physiology, Journal of Nutrition, Analytical Chemistry, Cancer Letters, Journal of Gerontology: Medical Science, Life Sciences, Proteomic Sciences, International Journal of Environmental Research and Public Health,*

International Journal of Vitamin and Nutrition Research, Physiological Genomics, Nutrients, Journal of Applied Physiology, PLOS, Molecules

SERVICE ACTIVITIES

University/Institutional Service:

School committees

- American Public University: A.I. Task Force, 2023
- American Public University: Student Conduct Board, 2022-present
- American Public University: Institutional Review Board, 2017-present
- American Public University: Curriculum Committee, 2013-2015
- University of North Carolina, Charlotte: Institutional Animal Care and Use Committee, 2007-2008
- Pennington Biomedical Research Center: Institutional Animal Care and Use Committee, 2000-2002
- Committee on Human Nutrition and Nutritional Biology, University of Chicago, 1997-2000.

Professional society committees

- Award Juror, American Society for Nutrition, 2012
- Award Juror, Student Research Competition, Energy and Macronutrient Metabolism Research Interest Section, American Society of Nutrition, 2011-2012
- Advisor, Energy and Macronutrient Metabolism Research Interest Section, American Society of Nutrition, 2011-2014
- Secretary (Elected position), Research Dietetic Practice Group, Academy of Nutrition and Dietetics, 2013-2015
- Chair-Elect (Elected position), Research Dietetic Practice Group, Academy of Nutrition and Dietetics, 2015-2016
- Chair (Elected position), Research Dietetic Practice Group, Academy of Nutrition and Dietetics, 2016-2017
- Past Chair, Research Dietetic Practice Group, Academy of Nutrition and Dietetics, 2017-2019
- Fundraising Chair, Research Dietetic Practice Group, Academy of Nutrition and Dietetics, 2017-2021
- Past Chair, Cardiovascular Health and Well-being Dietetic Practice Group, 2023-2024
- Chair, Cardiovascular Health and Well-being Dietetic Practice Group, 2022-2023
- Chair-Elect, Cardiovascular Health and Well-being Dietetic Practice Group, 2021-2022
- Steering Committee, National Nutrient Database Conference, 2022-2024
- Chair-Elect, National Nutrient Database Conference, 2022-2023
- Secretary/Treasurer, Nutrition Physiology Special Interest Group, American Physiology Society, 2023-2024.

Special assignments – ad hoc task forces/working groups, projects, etc.

- LSU Health Sciences Center: Ad hoc reviewer for Research Enhancement Fund Committee, 2012, 2018, 2023

Clinical Service:

- Harbor-UCLA Medical Center: Research Dietitian, 1981-1983
- University of California, Los Angeles: Chief Research Dietitian, Division of Clinical Nutrition, 1983-1984
- University of California, Los Angeles: Chief Dietitian, Division of Clinical Nutrition, 1984-1988
- Stanford University: Clinical Diabetes Dietitian, 1988
- Stanford University: Relief Clinical Dietitian, 1988

Community Service Activities:

Association for Women in Science-Southern Louisiana Chapter's (AWIS-SL) science exhibit at the Girl Scouts Louisiana East BelievPhun Week (sponsored by American Physiology Society): 2009, 2010, 2011, 2012, 2013, 2015

Sports Dietitian for Mandeville High School Cross Country and Track team: 2014, 2015, 2016

Coach, Mandeville High School Equestrian Team (Founder of team): 2013-2019

Second Harvest Food Bank volunteer, 2019 to present

UMC Health Fair Day, April 2022

New Orleans Women and Children Shelter, November 2021, January 2023

Covenant House, New Orleans, January 2022

Capital District Science Fair Judge: March 2001

UNC Charlotte Oral Paper Screening Committee for the North Carolina Junior Science and Humanities Symposium, 2006