Curriculum Vitae

CATHERINE A. PETERSON, RDN, PHD
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CURRENT POSITION

2009 – present **Associate Professor of Nutrition and Director of Undergraduate Studies** Department Nutrition and Exercise Physiology, University of Missouri-Columbia. Appointment: 55% teaching, 30% research, 15% service. Provide oversight and direction for the curricula and management of three academic emphasis areas with a total undergraduate enrollment of ~250 students. Primary instructor for several undergraduate courses, including teaching a large nonmajor general education course (enrollment in Fall ~650 and Spring ~400) and the campus-required "Writing Intensive" and capstone courses for the Dietetics and Human Physiology/Nutritional Science (premed) majors. Director of the NEP Undergraduate Research Internship. Lead an independent research program in nutrition and human health and manage a laboratory which provides both undergraduate and graduate research training. Serve on multiple departmental, college and campus committees, including chair of the Undergraduate Curriculum Committee (UGCC).

2004 – 2009 **Assistant Professor of Nutritional Sciences**

EDUCATION

1993 − 1996 NIH Postdoctoral Trainee, Department of Nutritional Sciences, **University of Wisconsin- Madison.**

Ph.D., 1994 Nutritional Sciences, **University of Illinois at Urbana-Champaign**, Division of Nutritional Sciences.

B.S., 1986 Nutrition and Medical Dietetics, **University of Illinois at Chicago**, Health Sciences Center, College of Associated Health Professions.

EXPERIENCE

2003 – 2004 **Principal Nutrition Scientist,** Mead Johnson Nutritionals, Evansville, IN. Identified opportunities and built recommendations for new products and product upgrades. Defined science-based nutrition profiles for new products which supported global organizational positions and conformed to local regulations. Developed and documented scientific support for product features and benefits. Developed and presented nutrition training to internal technical and non-technical audiences. Assured that nutritional attributes and benefits of products were comprehensively and accurately communicated in advertising and promotional materials for health care professionals and consumers. Networked with external nutrition community so that regional interpretations and standards were reflected in both design and promotion of products. Actively contributed to development and implementation of global nutrition positions and policies.

EXPERIENCE (continued)

1999 – 2002 **Assistant Professor of Nutritional Sciences and Director of Coordinated Program in Dietetics,** Department Nutritional Sciences, University of Missouri-Columbia. Research area: Effects of phytoestrogens on bone and reproductive status throughout the life cycle. Teaching: graduate course in human nutrition; undergraduate courses in life cycle nutrition, nutritional assessment, and research methods (writing intensive). Administration: Manage a professional program of 20-30 upper-level undergraduate students including three faculty and one support staff; maintain ADA accreditation standards and documentation, including a complete overhaul of the CP curriculum.

1996 – 1998 **Assistant Professor of Nutritional Sciences**, School of Health Promotion and Human Development, University of Wisconsin-Stevens Point. Graduate and undergraduate teaching areas: nutritional biochemistry, nutrition throughout the life cycle, educational and counseling techniques in dietetics, food science, and recent advances in foods and nutrition; certified *writing emphasis* instructor.

1993 – 1996 **NIH Postdoctoral Trainee,** Department of Nutritional Sciences, University of Wisconsin-Madison. Work involved using a rat total parenteral nutrition model to study the effects of growth factors and TPN lipid emulsions on total body anabolism/composition, gut structure/function, and immune response.

1988 – 1993 **Graduate Research Assistant** Nutritional Sciences, University of Illinois at Urbana-Champaign. Thesis work investigated the effect of calcium bioavailability and intake level on bone growth and maintenance, using both young and aging rat models.

1990 – 1991 **Decatur Memorial Hospital Research Fellow**, Division of Nutritional Sciences, University of Illinois. Study: determination of plasma retinol, beta-carotene, and alpha-tocopherol levels in cancer patients undergoing radiation treatment.

1989 – 1990 **Nutrition Consultant**, Nutrition Consultants, Atlanta, IL. Monitored and managed all aspects of nutritional care of clients living in group homes for the developmentally disabled throughout central Illinois.

1987 – 1988 **Clinical Dietitian**, Silver Cross Hospital, Joliet, IL. Managed nutritional care of hospital in-patients and out-patients. Primary responsibilities included medical, orthopedic, geriatric and OB-GYNE units.

1986 – 1987 **Nutritionist**, Will County Health Department, Joliet, IL. Provided nutrition education and counseling for clients in the prenatal and well-baby clinics throughout the county. Designed nutrition education materials and public service announcements. Gave in-services to public health nurses on various aspects of nutrition care and accompanied nurses during home visits of clients with special nutritional needs.

1985 – 1986 **Dietetic Student Intern**. Clinical affiliations in major Chicago hospitals: University of Illinois Hospital, Children's Memorial Hospital, and Veteran's Administration Westside Medical Center. Special clinical experience included oncology, renal transplant, and enteral and parenteral nutrition. Nutrition education and community experience: Mercy Diagnostic and Treatment Center, Chicago, IL; and, Dairy Nutrition Council, Inc.

TEACHING ACTIVITIES

Major Teaching Responsibilities

Fifty-five percent (55%) teaching appointment; expectations include both undergraduate and graduate courses. **Primary instructor** for eight distinct courses at various times throughout MU appointment, including five previously-taught [NS 236 *Nutrition Assessment*, NS 245 *Nutrition throughout the Lifespan*, NS/NEP 2340/NS 234 *Human Nutrition I*, NS/NEP 4340/7340 *Human Nutrition II*, NS 339 *Issues in Dietetics Practice*]; and three currently-taught [NS/NEP 4950/7950 /NS 313L *Capstone- Research in Nutrition Sciences*, NS/NEP 4951/NS 313P *Research Communications*, and NEP 1034/1034H *Intro to Human Nutrition*]. **Previous co-instructor** (25%) for the graduate course, NS/NEP 8340 *Nutrition and Human Health*; currently serve as guest lecturer (2 weeks/semester).

DESCRIPTIONS OF UNDERGRADUATE COURSES CURRENTLY-TAUGHT:

Large lecture class, nonmajors (500-900 students per semester); meets Biological Sciences General Education requirement

- *Intro to Human Nutrition*, (3 cr.) NEP 1034. Basic nutrition principles, including: nutrient functions, food sources, and needs; healthy eating tools; energy balance and weight management; nutrition and fitness; nutrition through the life cycle; food safety; and consumer topics. Taught FALL and SPRING.

Intermediate class size (50-60 students per semester); includes discussion and independent work; meets Biological Sciences General Education requirement

- *Intro to Human Nutrition Honors section* (3 cr.) NEP 1034H: Basic nutrition principles, including: nutrient functions, food sources, and needs; healthy eating tools; energy balance and weight management; nutrition and fitness; nutrition through the life cycle; food safety; and consumer topics. Prerequisites: Honors eligibility required. Includes regular lecture plus biweekly discussion. Taught FALL and SPRING.

Small class size (25 students); discussion/independent and group work. *Required for Human Physiology & Translational Sciences/Nutritional Science and Dietetics majors. Also a cross-leveled graduate course.*

- *Capstone- Research in Nutrition Sciences*, (2 cr.) NEP 4950/7950: (Nutritional Sciences & Dietetics Majors): Introduction to research, including the types of basic, clinical, and outcomes-based research. Defining research problems related to nutrition and exercise sciences, developing hypotheses, reviewing scientific literature, writing research proposals, analyzing data. Taught FALL.
- *Research Communications*, (1 cr.) NEP 4951W: Analyze and interpret data; present results of a research study in manuscript and seminar presentation formats. Emphasis on effective communication of nutrition research to scientific and lay audiences. Taught SPRING.

FRESHMAN INTEREST GROUP

- Founding Faculty Co-Facilitator of the Nutrition FIG, 2016.
- Founding Faculty Co-Facilitator of the *Food and Nutrition for a Healthy Future* FIG, academic years 2010-11 and 2011-12.

DIRECTOR OF THE NEP UNDERGRADUATE RESEARCH INTERNSHIP PROGRAM SINCE 2010

Oversee the advertisement, application, and selection processes; as well provide a series of lectures and activities which accompany the interns' training. Since 2010, twenty-nine interns have successfully completed the internship.

Course Student Evaluation Summary Table†

Semester	Course Number	No. of Students	No. Evaluating	Course GPA*	Evaluation Average**
F2019	NEP 1034 (3)	656	NA	NA	NA
	NEP 1034H (3)	47	NA	NA	NA
	NEP 4950/7950	23	NA	3.5	NA
S2019	NEP 1034 (2)	386	94	3.5	4.7
	NEP 1034H (2)	54	52	3.9	4.6
	NEP 4951W	16	15	3.9	3.3
F2018	NEP 1034 (3)	811	99	3.6	4.7
	NEP 1034H (3)	46	43	3.8	4.7
	NEP 4950/7950	18	17	3.9	4.1
S2018	NEP 1034 (2)	377	65	3.7	4.7
	NEP 1034H (2)	29	4	3.9	4.7
	NEP 4951W	23	21	3.9	4.1
F2017	NEP 1034 (3)	801	150	3.5	4.5
	NEP 1034H (3)	61	37	3.8	4.2
	NEP 4950	22	21	3.8	4.2
S2017	NEP 2340	95	55	3.15	4.3
	NEP 2340H	9	9	3.70	4.5
	NEP 4951W	21	21	3.89	4.5
F2016	NEP 4950	25	23	3.78	4.2
S2016	NEP 2340	89	61	3.15	4.3
	NEP 2340H	8	7	3.68	4.4
	NEP 4951	20	19	3.89	4.8
F2015	NEP 4950	21	21	3.85	4.7
S2015	NEP 2340	126	73	2.99	4.4
	NEP 2340H	10	10	3.70	4.6
	NEP 4951	22	18	3.77	4.8
F2014	NEP 4950	22	22	3.88	4.5
S2014	NEP 2340		81	3.28	4.5
	NEP 2340H	8	7	3.56	4.6
	NEP 4951	22	22	3.95	4.5
F2013	NS 4950	21	18	3.93	4.5
S2013	NS 2340	150	85	2.89	4.3
	NS 2340H	10	10	3.74	4.7
	NS 4951	23	23	3.53	4.4
F2012	NS 4950	23	23	3.92	4.0
	NS 4340/7340	35	32	2.94	4.5
S2012	NS 2340	158	74	2.96	4.4
	NS 2340H	10	10	3.56	4.7
	NS 4951	21	21	3.67	4.4
	NS 8340	4	2	N/A	4.5
F2011	NS 4950	22	20	3.56	4.5
S2011	NS 2340	148	54	2.79	4.3
	NS 2340H	6	6	3.56	4.5
	NS 4951	17	17	3.68	4.6
F2010	NS 4950	18	18	3.92	4.2
S2010	NS 2340	150	95	3.09	3.9
	NS 4951	21	21	3.75	4.4
F2009	NS 4950	22	22	3.81	4.2
	NS 4340/7340	35	29	2.25	3.8
S2009	NS 2340	120	46	2.79	4.1
	NS 4951	19	19	3.83	4.5
F2008	NS 4950	21	21	3.94	4.0
	NS 4340	30	30	2.88	3.9
S2008	NS 8340	15	12	3.20	5.0
	NS 2340	104	62	3.01	4.0
	NS 4951	18	18	3.73	4.7

F2007	NS 4950	17	16	3.89	3.8
	NS 4951	2	2	3.53	4.5
	NS 4340	30	18	2.65	3.0
W2007	NS 2340	106	70	2.79	3.4
	NS 4951	14	14	3.74	4.2
F2006	NS 4950	22	22	3.23	4.0
	NS 4340	36	31	2.49	3.7
W2006	NS 8340	12	11	3.25	3.9
	NS 2340	100	52	2.69	3.6
	NS 4951	11	11	3.56	4.4
F2005	NS 4950 (1)	18	17	3.9	4.1
	NS 4950 (2)	38	29	3.86	3.4
W2005	NS 2340	91	74	2.86	4.1
	NS 4951	15	15	3.79	3.7
F2004	NS 4950 (1)	27	23	3.9	3.9
	NS 4950 (2)	50	31	3.86	3.3
W2004	NS 234	83	52	2.98	4.2
	NS 339	11	10	4.0	4.9
W2002	NS 245	51	44	3.02	4.0
	NS 313P	10	10	3.71	4.2
	NS 339	10	10	3.9	4.1
W2001	NS 245	59	51	3.43	4.3
	NS 313P	11	10	3.79	4.6
	NS 339	11	10	3.8	4.5
F2000	NS 236L	54	43	3.3	4.0
	NS 313L	11	11	3.7	4.5
W2000	NS 245	34	22	3.43	4.4
	NS 339	15	15	3.71	3.9
F1999	NS 236	40	39	3.53	4.3
	NS 303	13	13	3.86	4.3
F2001	NS 313L	10	10	3.7	3.8

*Course GPA is for all students enrolled in course; not only have those who completed coursed evaluation.
** Score for "course as a whole", Item 1, Section II of Forms A-2, B-2. Scores range: 1=poor; 3=average; 5=outstanding
†**Six-year departmental average score of the following courses (includes all teaching faculty): NS 2340 (234)= 3.8; NS 4340/7340=3.1; NS 4950 (313L)=3.7; NS 4951= 4.0; NS 8340=3.7.**

Undergraduate Advising

Currently the only faculty advisor in the department. Directly responsible for academic advising ~20 undergraduates. Serve as a primary contact person for students and parents inquiring about departmental undergraduate major or minor degree programs.

RESEARCH ACTIVITIES

Thirty percent (30%) research appointment. Expectations include efforts that lead to publications in peer-reviewed journals and/or presentations at national meetings. Submission of grant applications for external funding is also expected. Other research-related roles and responsibilities include teaching two-semester undergraduate research curriculum for dietetics/HPTS (premed) majors and master's students, providing leadership for the NEP UG Research Internship, and training/mentoring undergraduate and graduate students in various research projects and activities**.**

Publications: Peer-reviewed Journal Articles

*author is a graduate student of C. Peterson; **author is an undergraduate student of C. Peterson; †corresponding author

Peterson, C.A. †, Ezemaduka-Okoli, C.B.* & Woldu, H.G. Low urinary iodine concentration is associated with increased risk for elevated plasma glucose in females: An analysis of NHANES 2011-12. *Under review, JACN, Dec 2019.*

RESEARCH ACTIVITIES

Publications: Peer-reviewed Journal Articles (continued)

Ideraabdullah, F.Y.†, Belenchia, A.M. *, Rosenfeld, R.S., Kullman S.W., Knuth, M. Mahapatra, D., Bereman, M., Levin, E.D. & **Peterson, C.A.** Maternal vitamin D deficiency and developmental origins of health and disease (DOHaD). *J of Endocrin*. 241(2):R65-R80, 2019.

Novotny, J.A. † &. **Peterson, C.A**. Molybdenum. *Adv in Nutr*. 9(3):272-273, 2018.

Belenchia, A.M.*, Johnson, S.A., Kieschnick, A.**, Rosenfeld C.S. & **Peterson, C.A**.† Characterization of the time-course for vitamin D depletion and repletion in female C57/Bl6 mice. *Comparative Med*.67:483-90, 2017.

Belenchia, A.M.*, Johnson, S.A., Ellersieck, M., Rosenfeld C.S. & **Peterson, C.A**.† In utero vitamin D deficiency predisposes offspring to long-term adverse adipose tissue effects. *J of Endocrin*. 234(3):301-313, 2017.

Belenchia AM*, Jones KL, Will M, Beversdorf DQ, Vieira-Potter V, Rosenfeld CS & **Peterson CA**.† Maternal vitamin D deficiency during pregnancy affects expression of adipogenic-regulating genes peroxisome-proliferator activated receptor-gamma (PPARγ) and vitamin D receptor (VDR) in male offspring mice. *Eu J Nutr* Dec 21, 2016.

Beversdorf, D., † Ferguson, B.J., Marler, S, Altstein, L.L., Lee, E.B., Mazurek, M.O., McLaughlin, A.M., Macklin, E.A., McDonnell, E.I., Davis, D.J., Belenchia, A.M*, Gillespie,C.H., **Peterson,C.A**, Bauman, M.L., Margolis, K.G., Veenstra-VanderWeele, J. Associations between cytokines, endocrine stress response, and gastrointestinal symptoms in autism spectrum disorder Brain, Behavior, and Immunity. Submitted to *Brain, Behavior & Immunity*, Nov;58:57-62, 2016

Peterson, C.A.† Vitamin D deficiency and childhood obesity: interactions, implications & recommendations. Invited Review, *Nutrients Diet Suppl*. Feb 1;7, 2015.

Peterson, C.A, † Tosh, AK, Belenchia, A.M.* Vitamin D insufficiency and insulin resistance in obese adolescents. *Ther Adv Endocrinol Metab*. 5(6):166–189, 2014.

Peterson, C.A, † Belenchia, A.M.* Vitamin D deficiency and childhood obesity: A tale of two epidemics. *Missouri Medicine* 111: 49-53, 2014.

Belenchia, A.M., * Tosh, A.K, Hillman, L.S. and **Peterson, C.A**† Correcting vitamin D insufficiency improves insulin sensitivity in obese adolescents: A randomized controlled trial. *Am J Clin Nutr*. Apr;97(4):774-81, 2013.

Ring, S.M., * E.A. Dannecker, and **Peterson, C.A**† Vitamin D status is not associated with outcomes of experimentally induced muscle weakness and pain in young, healthy volunteers. *J Nutr Metab*. 2010:674240, 2010.

Peterson, C.A.† Geter, K.A., ** Heffernan, M.E.*, and Ring, S.M*. Effects of regular tanning bed use and increased Vitamin D Status on serum bone markers in healthy women. *Clinical Medicine: Women's Health* 2:1–7, 2009.

Peterson, C.A.† Schnell, J.*, Kubas, K. L., and Rottinghaus, G.E. Effects of soy isoflavone consumption on bone structure and milk mineral concentration in a rat model of lactation-associated bone loss. *Eur J Nutr*. Mar;48(2):84-91, 2009.

RESEARCH ACTIVITIES

Publications: Peer-reviewed Journal Articles (continued)

Peterson, C.A.[†] & Heffernan, M.E.[*] Serum TNF-alpha concentrations are negatively correlated with serum 25(OH)D concentrations in healthy women. *Journal of Inflammation* 5(1):10, 2008.

Peterson, C.A.[†], Kimmons, J.E.*, & Cole, J.S. Short-term effectiveness of an outcomes research training curriculum within a Coordinated Program. *JADA,* 108: 120-124, 2008.

Peterson, C.A.[†], Kubas, K.L.[*], Hartman, S.J., Rottinghaus, G.E., Taylor, J.A., & Welshons, W.V. Lack of skeletal effect of soy isoflavones in intact growing, female rats may be explained by reduced serum estrogenicity. *Ann Nutr Metab* 52:48-57, 2008.

Hays, J.E[*]. & **Peterson, C.A.**[†] Use of an outcomes research collaborative training curriculum to enhance entry-level dietitians' and established professionals' understanding of research. *JADA,* 103:77-84, 2003.

Gardner, J.K.[*], Rall, L.C. & **Peterson, C.A.**[†] Lack of multidisciplinary collaboration is another barrier to outcomes research. *JADA* 102:65-70, 2002.

Peterson, C. A., Gillingham, M., Mohapatra, N. K., Adamo, M. L., Carey, H. V.Lund, P. K & Ney, D. M. [†] Enterotropic effect of insulin-like growth factor-I but not growth hormone and localized expression of insulin-like growth factor-I, insulin-like growth factor binding protein- 3 and -5 mRNAs in jejunum of parenterally-fed rats. *J Parenter Enteral Nutr JPEN* 24:288-95, 2000.

Hinton, P.S. [†], **Peterson, C.A**., McCarthy, D.O. and Ney, D.M. Medium-chain compared with long-chain triacylglycerol emulsions enhance macrophage response and increase mucosal mass in parenterally-fed rats. *Am J Clin Nutr* 76:1265-72, 1998.

Hinton, P.S., **Peterson, C.A.,** Dahly, E.M. and Ney, D.M. [†] IGF-I alters lymphocyte survival and regeneration in thymus and spleen after dexamethasone treatment. *Am J Physiol*. 274: R912-920, 1998.

Yang, H., Ney, D.M., **Peterson, C.A**., Lo, H.-C & Adamo, M.L[†]. Stimulation of intestinal growth is associated with increased IGFBP-5mRNA in the jejunal mucosa of IGF-I-treated parenterally-fed rats. *Proceedings of the Society for Experimental Biology and Medicine*, 216:438-45, 1997.

Peterson, C.A., Carey, H.V., Hinton, P.S., Lo, H.C. and Ney, D.M.[†] GH elevates serum IGF-I levels but does not alter mucosal atrophy in parenterally-fed rats. *Am J Physiol* 272: G1100-08, 1997.

Peterson, C.A., Hinton, P.S., Ney, D.M. and Carey, H.V. [†]Insulin-like growth factor-I attenuates changes in jejunal structure and transport function in parenterally-fed rats. *Gastroenterology* 111:1507-14, 1996.

Hinton, P.S. [†]**, Peterson, C.A**., Lo, H.C., Yang, H., McCarthy, D. and Ney, D.M. Insulin-like growth factor-I enhances immune function in dexamethasone-treated or surgically-stressed rats maintained with total parenteral nutrition. *JPEN J Parenter Enteral Nutr* 19:444-452, 1995.

Peterson, C. A., Baker, D. H. & Erdman, J. W., Jr.[†] Dietary-induced nephrocalcinosis in female rats: A response to L'Abbe et al. *Journal of Nutrition,* 126:2941-2942, 1996.

Peterson, C. A., Baker, D. H. & Erdman, J. W., Jr.[†] Dietary-induced nephrocalcinosis in female rats is irreversible and is primarily induced before the completion of adolescence. *Journal of Nutrition,* 126:259-265, 1996

RESEARCH ACTIVITIES

Publications: Peer-reviewed Journal Articles (continued)

Lo, H.C., Hinton, P.S., **Peterson, C.A.** and Ney, D.M.† Simultaneous treatment with IGF-I and GH additively increases anabolism during total parenteral nutrition in rats. *Am J Physiol* 269 (Endocrinol Metab 32):E368-E376, 1995.

Peterson, C.A., Eurell, J. C., Kelley, K. W. & Erdman, J. W.†, Jr. Bone composition and histological analysis of young and aged rats fed diets of varied calcium bioavailability. *Journal of the American College of Nutrition*, 14:278-285, 1995.

Peterson, C.A., Eurell, J. C. & Erdman, J. W., Jr. † Alterations in calcium intake on peak bone mass in female rats. *Journal of Bone and Mineral Research* 10:81-95, 1995.

Peterson, C.A., Eurell, J. C. & Erdman, J. W., Jr.† Bone composition of young growing rats fed diets of varied calcium bioavailability: Spinach, nonfat dry milk, or calcium carbonate added to casein. *Journal of Nutrition* 122:137-144, 1992.

Publications: Abstracts Presented at National/International Meetings

*****Presenting author

Jerrod, T.* & **Peterson, C.A** Assessment of Vitamin D Knowledge/Awareness of Black College Students. Experimental Biology'16, April 2-April 6. San Diego, CA.

Belenchia, A.M.,* Rosenfeld, C.S, Johnson, S.A., Kieschnick, A. & **Peterson C.A.** Long-Term Vitamin D Deficiency Decreases Bodyweight and Adipose Tissue Mass in Female Mice. Experimental Biology '16, April 2-April 6. San Diego, CA.

Peterson, C.A.* Belenchia, A.B., Johnson, S.A., Kieschnick, A. & Rosenfeld, C.S. Characterization of the time-course for vitamin D depletion and repletion in lab animals. 19th Workshop on Vitamin D, March 29-31, 2016, Boston, MA.

Belenchia A.M.,* Rosenfeld, C.S., Johnson, S.A., **Peterson, C.A.** Effects of Maternal Vitamin D Deficiency During Pregnancy on the Long-Term Metabolic Health of Offspring. Experimental Biology '15, March 28-April 1. Boston, MA.

Peterson, C.A.* Belenchia, A.B., Johnson, S.A. Rosenfeld, C.S. Effects of vitamin D deficient diet during pregnancy on body composition of offspring. 17th Vitamin D Workshop, June 18-20, 2014, Chicago, IL.

Jones K.L.*, Belenchia A., Vieira-Potter V., **Peterson C.A.,** Will M.J., Beversdorf D.Q. A Mouse Model of Prenatal Vitamin D Deficiency: Effects on Offspring Behavior, Systemic Immune and Gut Microflora Profile. 2014 International Meeting for Autism Research. May 14-17. Atlanta, GA.

Belenchia, A*., Jones K.L., Will M.J., Beversdorf D.Q. ,Vieira-Potter V., **Peterson C.A**., Effects of pregnancy vitamin D status on adipose tissue development and inflammation in lean, male adult mice offspring. Experimental Biology '14, April 26-30. San Diego, CA.

Belenchia A.*, Jones K.L., Will M.J., Beversdorf D.Q. Vieira-Potter V., **Peterson C.A**., Effects of prenatal vitamin D deficiency on offspring behavior in mice. Neuroscience 2013, November 9-13. San Diego, CA.

Belenchia, A.M.*, Tosh A., Hillman L., **Peterson C.A**. High-dose (4000 IU) vitamin D supplementation does not increase circulating concentrations of free 25-hydroxyvitamin D. Experimental Biology '13, April 20-24. Boston, MA.

RESEARCH ACTIVITIES

Publications: Abstracts Presented at National/International Meetings (continued)

Peterson C.A.*, Belenchia, A.M., Tosh A., Hillman L., Safety and efficacy of the tolerable upper intake level (UL) of vitamin D to improve the vitamin D status of obese adolescents. 15th Workshop on Vitamin D, June 20-22, 2012, Houston, TX.

Belenchia, A.M.*, Tosh A., Hillman L., **Peterson C.A**. High-dose (4000 IU) vitamin D supplementation improves insulin resistance in obese adolescents. Experimental Biology'12, April 21-25, San Diego, CA.

Belenchia, A.M.*, Tosh A., Hillman L., **Peterson C.A..** Safety and efficacy of using high dose (4000 IU daily) vitamin D supplementation to improve the vitamin D status of obese adolescents. Experimental Biology 2011, April 9-13, Washington D.C.

Peterson C.A*, Ring S.M., Dannecker E.A. Does vitamin D status predict outcomes of experimentally-induced muscle pain and weakness in healthy young volunteers? Experimental Biology '09, April 18-22, New Orleans, LA.

Peterson, C.A.*, Ring S., Loethen J., Rector R.S., Thomas T., Hinton, P.S. Vitamin D status is unaltered by mild weight reduction in obese premenopausal women. Experimental Biology '08, April 5-9, San Diego, CA.

Peterson C.A.*, N. Bagegni. Diet, Not Genotype, Affects Bone Size in Ovariectomized Estrogen Receptor Alpha Knockout Mice. 27th Annual Meeting of the American Society for Bone and Mineral Research, September 23-27, 2005, Nashville, Abs #SU416.

Peterson, C.A*. Schnell J., Hillman L. Effects of Soy Isoflavones on Bone Mineralization and Milk Mineral Concentration in Lactating Rats. 26th Annual Meeting of the American Society for Bone and Mineral Research, October 1-5, 2004, Seattle, Abs #M446.

Peterson, C.A*, Miranda, D.G., Kubas, K.L. Soy isoflavone extracts affect bone mineralization in lactating rats. Experimental Biology 2002, April 21-24, New Orleans, *FASEB J*. 15: A.

Peterson, C.A*. & Kubas, K.L. Effects of soy protein with varying levels of isoflavones on bone mineralization and reproductive development in the adolescent rat. Experimental Biology 2000, April 15-18, San Diego. *FASEB J*. 14: A217 (abs.#160.6).

Peterson, C.A*. Entry-level Outcomes Research Collaborative Training Teams: Securing a Future for the Dietetics Profession, ADA Annual Meeting & Exhibition, Atlanta, GA, October 16-20, 1999.

Hinton P.S.*, **Peterson C.A**. and Ney, D.M. Insulin-like growth factor-I (IGF-I) does not alter the decrease in pre-lymphoid bone marrow (BM) cells observed during total parenteral nutrition (TPN) in rats. *FASEB J* 13:199.2, 1999.

Ney, D*. M., **Peterson, C.**, Gillingham, M., Carey, H. V., Mohapatra, N. K. & Lund, P. K. IGF-I stimulates intestinal growth and local expression of IGF binding proteins 3 and 5 in parenterally-fed rats. *1997 Endocrine Society Meeting*, Minneapolis, MN.

Hinton, P.S.*, **Peterson, C.A**., McNall, A. and Ney, D.M. IGF-I alters lymphocyte recovery after dexamethasone-induced apoptosis in rats maintained with total parenteral nutrition. Endocrine Society Meeting, San Francisco, CA. Abstract #P2-239, 1996.

Peterson, C.A.*, Hinton, P.S. and Ney, D.M. Medium-chain triglyceride (MCT) emulsions improve immune response and attenuate mucosal atrophy in parenterally-fed rats. *FASEB J 10*(3):1195, 1996.

Hinton, P.S.*, **Peterson, C.A**., Lo, H.C., McCarthy, D. and Ney, D.M. Insulin-like growth factor-I co-infused with total parenteral nutrition solution enhances immune function in dexamethasone-treated or surgically-stressed rats. *FASEB J* 9:5001, 1995.

RESEARCH ACTIVITIES

Publications: Abstracts Presented at National/International Meetings (continued)

Lo, H.C, *, Hinton, P.S., **Peterson, C.A.** and Ney, D.M. Anabolic response to concurrently administered recombinant human insulin-like growth factor-I and/or growth hormone during total parenteral nutrition in surgically-stressed rats. *FASEB J 9:5002*, 1995.

Peterson, C. A.*, Carey, H. V. & Ney, D. M. Insulin-like growth factor I, but not growth hormone attenuates changes in jejunal structure and function induced by total parenteral nutrition in rats. *Endocrine Society Meeting*, Washington, DC. Abstract #P3-210, p. 521, 1995.

Yang, H.*, Ney, D.M., **Peterson, C.A**., Lo, H.-C & Adamo, M.L. Hepatic and jejunal responses to IGF-I and GH in rats maintained with total parenteral nutrition are associated with differential responses of IGF- I and IGFBP-5 gene expression. *Endocrine Society Meeting*, Washington, DC. Ab#P1-242, p. 173, 1995.

Peterson, C.A.*, Ney, D. M. & Carey, H. V. IGF-I attenuates TPN-induced changes in jejunal structure and transport function. *Gastoenterology* 108: A746, 1995.

Peterson, C.A.*, Eurell, J. C. & Erdman, J. W., Jr. Effect of varied calcium intakes on bone growth and development during the early phases of the life cycle of the female rat. *FASEB J* 8: A693, 1994.

Peterson, C.A.*, Eurell, J. C., Kelley, K.W. & Erdman, J. W., Jr. Histologic and histomorphometric analysis of vertebrae from aged rats fed diets of varied calcium bioavailability. *FASEB J 6:A1984, 1992.*

Peterson, C.A.*, Eurell, J. C., Kelley, K.W. & Erdman, J. W., Jr. Bone composition and histology of young and old rats fed diets with varying calcium bioavailability. *FASEB Journal* 4: A1045, 1990.

Publications: Invited Review

Peterson, C. Optimizing infant bone health by modeling human milk: Calcium and so much more. *Pediatric Perspectives Newsletter*. 3(8), 2004.

Publications: Published Book Chapters

Markward, N., **Peterson, C.A.,** and Markward. M.J. Biological and Genetic Influences on Obesity. In: *Obesity in Youth: Causes, Consequences and Cures*. American Psychological Association, Washington, DC, 2009.

Hillman, L.S., Hinton, P.S., **Peterson, C.A.,** Thomas, T.R., Sun, G.Y., Hillman, R. and Raedeke, M.D. Nutrition. Nutrition in Cardiovascular Disease. In: H.N. Winn and K.C. Dellsperger, eds. *Cardiovascular Diseases in Women*, Informa Healthcare Ltd., Oxford, U.K., 2006.

Peterson, C. A. Nutrition in Cancer and HIV Infection. In: F. J. Zeman & D. M. Ney, Eds. Clinical Nutrition and Diet Therapy, 3rd ed., Merrill/Prentice Hall, 1997.

Patents:

Anthony JC, Sims KA, Hossen M, **Peterson CA**, Diersen-Schade, D, Samuel, P. Nutritional supplement containing long-chain polyunsaturated fatty acids. Publication No. US20070166411 A1, US Patent Office, June 19, 2007. http://www.google.com/patents/US20070166411

RESEARCH ACTIVITIES

Undergraduate and Graduate Research Training

Dissertation/Thesis Committee Chair (Graduate Advisor)

Jennifer Bean	Ph.D. CANDIDATE, NUTRITIONAL SCIENCES, 2018- present
Frances Wilkinson	M.S. CANDIDATE, NUTRITIONAL SCIENCES, 2018- present
Chisom Ezemaduka	M.S., NUTRITIONAL SCIENCES, 2017- 2019 Thesis: Association between urinary iodine concentrations and insulin resistance in US adults
Tiffany Jerrod	MPH. PUBLIC HEALTH, 2014-2016 Thesis: Vitamin D knowledge among black college students
Anthony Belenchia	PHD. NUTRITIONAL SCIENCES, 2012- 2016 Thesis: Consequences of *in utero* vitamin D deficiency on offspring metabolic phenotype in two rodent models of obesity M.S., NUTRITIONAL SCIENCES, 2009- 2012 Thesis: Effects of high-dose vitamin D supplementation on inflammation & glucose metabolism in obese adolescents. *One of twelve invited to participate in ASN graduate research contest at ExpBio'12*.
Susan Ring	M.S., NUTRITIONAL SCIENCES, 2007-2009 Thesis: Relationship of vitamin D status to pain perception/muscle strength in healthy adults.
Mary Heffernan	M.S., NUTRITIONAL SCIENCES, 2005-2007 Thesis: Vitamin D status, inflammatory markers, and bone mineralization of pre- and post-menopausal women who regularly use a commercial tanning bed.
Jennifer Schnell	M.S., NUTRITIONAL SCIENCES, 2002-2004 Thesis: Effects of isoflavone intake on bone and milk in an intact lactating rat.
Janet Hays	M.S., HUMAN NUTRITION, FOODS, AND FSM, 1999-2001 Thesis: Short-term effectiveness of an outcomes research training curriculum with the Dietetics curriculum.
Karen Kubas	PHD CANDIDATE, 1999-2002 Thesis: Effect of soy isoflavones on bone during growth and lactation.
Joanne Gardner	M.S. NUTRITIONAL SCIENCES, 1998-2000 (UW- STEVENS POINT). Thesis: A study of the impact of collaboration on dietitians' involvement in outcomes research.

RESEARCH ACTIVITIES

Undergraduate and Graduate Research Training (continued)

Dissertation/Thesis Committee Member

Brittany Sievers	M.S., FOOD SCIENCE, 2018- 2019 Thesis: Incorporation of preheated whey protein isolate and pectin complexes as natural emulsifiers and stabilizers in processed cheddar cheese sauce
Rebecca Dirkes	PHD. CANDIDATE, NUTRITIONAL SCIENCES, 2016- present
Abigail Wenthe	M.A. JOURNALISM, 2015-2016 Thesis: A textual analysis of health-content framing in women's health and fitness magazines
Jun Jiang	M.S. NUTRITIONAL SCIENCES, 2013- 2014 Thesis: Effects of daily ingestion of encapsulated dried fruit-vegetable juice concentrate on markers of chronic, systemic inflammation in overweight women
Julie Frank	M.S. FOOD SCIENCE, 2012- 2014 Thesis: Addition of Probiotics to ice cream
Kayla Kanosky	M.S. ANIMAL SCIENCES, 2010-2012 Thesis: Varied sources of conjugated linoleic acid (CLA) does not alter bone mineral density (BMD), bone mineral content (BMC), or body fat content in postmenopausal ovariectomized rats.
Heather Hoertel	M.S. NUTRITIONAL SCIENCES, 2012 Thesis: The effects of breakfast on homovanillic acid
Joanne Loethen	M.A. EXERCISE PHYSIOLOGY, 2007-2008 Thesis: Effects of weight-bearing and non-weight bearing exercise on markers of bone turnover during short-term weight loss in overweight premenopausal women.
Aziza Jamal	M.S. NUTRITIONAL SCIENCES, 2001-2004 Thesis: Prevalence and treatment of osteoporosis in Saudi Arabia.
Stephanie Yates	M.S., NUTRITIONAL SCIENCES, 1999-2001 Thesis: Soy isoflavone absorption, metabolism, and bone effects in college-aged women.

Medical School Students Research Training

Samuel Jersak	MISSOURI SOM SUMMER RESEARCH FELLOWSHIP Research: Association between vitamin D status and cognitive function during stress. *2nd place in graduate poster competition, Health Sciences Research Day'12.*

Undergraduate Research Projects

Alyssa Kieschnick	NEP UNDERGRADUATE RESEARCH INTERNSHIP. Effects of maternal vitamin D deficiency during pregnancy on weight gain and adiposity in male offspring (Agouti model), 2015-16.

RESEARCH ACTIVITIES

Undergraduate and Graduate Research Training

Undergraduate Research Projects (continued)

Tiffany Jerrod	MCNAIR PROGRAM SCHOLAR. Assessment of vitamin D knowledge/awareness and status of black undergraduate college students, 2013-14.
Zane Bright	HES-PURE UNDERGRADUATE RESEARCH INTERN GRANT Effectiveness of UVB phototherapy to improve vitamin D status in active older adults, Fall 2011.
Evanne Hill	NEP SUMMER RESEARCH INTERN GRANT Effect of UVB phototherapy on vitamin D status in Active Aging Adults, Summer, 2010.
Megan Krogman	LSUROP/ F21C SUMMER RESEARCH INTERN GRANT Effect of oral contraceptives on vitamin D status and serum vitamin D binding protein concentrations, Summer, 2009.
Bradley Harr	F21C SUMMER RESEARCH INTERN GRANT Effect of UVB phototherapy on serum 25OHD levels in Children with CF, Summer, 2007.
Kay Geeter	F21C SUMMER RESEARCH INTERN GRANT Relationship between serum 25OHD levels and C-reactive protein in tanning and nontanning women, Summer, 2007.
Jennifer Talbert	F21C SUMMER RESEARCH INTERN GRANT Effect of vitamin D on Inflammatory Response in Children with CF & JRA, Summer, 2006.
Nusayba Bagegni	F21C SUMMER RESEARCH INTERN GRANT Diet, Not Genotype, Affects Bone Size in Ovariectomized Estrogen Receptor Alpha Knockout Mice., Summer, 2004.
Sarah Zinati	LIFE SCIENCES UNDERGRADUATE RESEARCH OPPORTUNITIES PROGRAM Methodology for harvesting and analyzing rat milk for isoflavone and mineral content, Summer, 2002.
Dion Miranda	F21C SUMMER RESEARCH INTERN GRANT The effect of soy isoflavones on reproductive development in peripubertal rats, Summer, 2000.
Meredith Henderson	LIFE SCIENCES UNDERGRADUATE RESEARCH OPPORTUNITIES PROGRAM Dairy food intake and bone mineral density in Missouri teens", Summer, 2000.
Allison Daee	DEPARTMENTAL START-UP FUNDS. The effect of soy isoflavones on estrus cycling in adolescent female rats. Summer, 1999.

RESEARCH ACTIVITIES

Recently Submitted Projects

Project Title:	Investigating the role of metabolic programming in vitamin D deficiency induced adiposity.
Project Period:	7/1/19-6/30/22
Funding Agency:	UNIV OF NC CHAPEL HILL
Role:	Co-Investigator (30%); R. Rector, PI,
Amount Requested:	$126,266

Project Title:	Military Families and Equine Assisted Activity: Biopsychosocial Outcomes.
Project Period:	1/1/18-11/30/21
Funding Agency:	NIH NATL INST OF HEALTH
Role:	Co-Investigator (5%); R. Johnson, PI
Amount Requested:	$1,494,474.00

Funded, Completed Projects

Project Title:	Relationship between gastrointestinal disorders and stress reactivity, immunity, and blood serotonin in autism spectrum disorder.
Project Period:	9/1/12-8/31/14
Funding Agency:	Autism Speaks Autism Treatment Network (AS ATN) &Autism Intervention Research Network on Physical Health (AIR-P)
Role:	Co-Investigator (3%); D. Beversdorf, PI,
Amount Awarded:	$270,142

Project Title:	Use of High-dose Vitamin D to Improve Glucose metabolism and Reduce Inflammation in Obese Adolescent on a Standard Weight Loss Program.
Project Period:	9/01/09-8/31/10; no cost extension through11/30/11
Funding Agency:	J.R. Albert Foundation, Inc.
Role:	Principle Investigator (5%)
Amount Awarded:	$81,435

Project Title:	Use of UVB Phototherapy to Optimize Vitamin D Status in Active OlderAdults.
Project Period:	01/01/10-6/30/11
Funding Agency:	HES Margaret Flynn Award, University of Missouri.
Role:	Principle Investigator
Amount Awarded:	$5000

Project Title:	Vitamin D Status, Inflammatory Markers, and Bone Mineralization of Pre- and Post-Menopausal Women who regularly use a Commercial Tanning Bed.
Project Period:	1/01/07-12/31/07
Funding Agency:	University of Missouri Research Council
Role:	Principal Investigator
Amount Awarded:	$7,500

Project Title:	Effects of Soy Isoflavones on Lactation-associated Bone Loss
Project Period:	6/01/02-8/31/02
Funding Agency:	HES Margaret Flynn Award
Role:	Principal Investigator (20%)
Amount Awarded:	$3,096

RESEARCH ACTIVITIES

Funded, Completed Projects

Project Title:	Effects of Soy Phytoestrogens on Bone Mineralization
Project Period:	3/01/01-2/28/02
Funding Agency:	University of Missouri Research Board
Role:	Principal Investigator (20%)
Amount Awarded:	$39,941
Project Title:	The effectiveness of an Outcomes Research Training Curriculum in Promoting the Performance of Outcomes Research by Dietetics Professionals.
Project Period:	5/01/00-4/30/01
Funding Agency:	HES Margaret Mangel Faculty Catalyst Award
Role:	Principal Investigator (2%)
Amount Awarded:	$5,000
Project Title:	Entry-level Outcomes Research Collaborative Training Teams: Securing a Future for the Dietetics Profession
Project Period:	6/15/99-8/15/00
Funding Agency:	American Dietetic Association, Educational Innovations Grant Program
Role:	Principal Investigator (10%)
Amount Awarded:	$16,938

PROFESSIONAL & SERVICE ACTIVITIES

Fifteen percent (15%) service appointment. Institutional expectations include participation in departmental, college and campus service as dictated by departmental needs. Encourage community and national organization involvement.

Recent Presentations: Invited Talks

2019 A Professor's Perspective: Tips for success & sagacity in college. Fr. Tolton Catholic Regional High School, Columbia MO.

2018 The A, B, Cs…& Ds of Dietary Supplements, Boone County Medical Society Alliance.

Your Nutrition Questions Answered, Delta Tau chapter of Alpha Kappa Alpha Sorority.

Careers in Nutrition & Exercise Physiology, 4-H Youth Futures College Within Reach.

2014 Mind over M&Ms: Mindful Eating Strategies. Boone County Kiwanis. Columbia, MO.

Careers in Nutrition: Clinical RD to Researcher. Cristo Rey Health Professions Summit, Columbia, MO.

Healthy snacking to support your dancing. CPAC Advanced Ballet Clinic. Columbia, MO.

Why we eat more than we think we do: Strategies to avoid overeating. OPAH Columbia, MO.

2013 Vitamin D & Childhood Obesity, NEP Seminar Series, University of Missouri, Columbia.

Nutrition & Physical Activity: Partners in Health. Our lady of Lourdes Interparish School, Columbia, MO.

2011 Instructor Dialogues: Best Practices with Tegrity. Technology Conference, MU Campus.

Vitamin D and Human Health. NEP graduate students, Columbia MO.

PROFESSIONAL & SERVICE ACTIVITIES

Recent Presentations: Invited talks (continued)

2010 Tegrity in the Classroom: Lecture & Beyond. University of Missouri. Columbia, MO

Vitamin D and Optimal Health. Center for Family Policy and Research, Columbia, MO

Vitamin D and Human Health: A D'lightful Story. HES Extension Update. Lake Ozark. MO.

Vitamin D and Optimal Health. Age Strong, Live Long. UM Extension, Kansas City, MO

Vitamin and Optimal Health. Greater Kansas City Assn of Family and Consumer Sciences Meeting, Independence, MO.

Research Update: Vitamin D & Human Health. Central Missouri Dietetic Assn., Columbia, MO.

Strategies to Avoid Overeating: Why we eat more than we think we do. Women's Leadership Conference, Columbia, MO.

2009 Vitamin D Requirements: Many Reasons for All Seasons. Missouri Department of Mental Health Dietitians Meeting, Jefferson City MO.

Vitamin D and Human Health: A D-lighful Story. LSUROP summer program, University of Missouri, Columbia, MO.

Vitamin D for Optimal Health: What's the Evidence? Osher Institute for Lifelong Learning. Columbia, MO.

2008 Vitamin D status and serum inflammatory markers of healthy tanning and non-tanning women, Department of Child Health Grand Rounds, University of Missouri Hospital, Columbia, MO.

Vitamin D status and inflammatory markers of women who regularly use a commercial tanning bed Nutritional Sciences Seminar Series, University of Missouri, Columbia, MO.

Eat a Rainbow on Your Plate: Girl Scouts Troop #41 Meeting, Columbia, MO.
Why We Eat More than We Think. MU Nutrition and Wellness Association, Columbia, MO.
Being a Nutrition Scientist: "Health Career Day", Columbia Catholic School, MO.

2007 Benefits & Requirements of Vitamin D for Optimal Health: Islamic Women's Group, Columbia, MO.

Strategies to Avoid Overeating- What We've Learned from the Research: Jazzercise Program, Columbia, MO.

Current Institutional service: Department of Nutritional and Exercise Physiology

Chair	Undergraduate Education and Curriculum Committee
Member	Margaret Mangel Lectureship 2020 Committee
Member	Dietetics Recruitment and Selection Committee
Member	NEP Graduate Committee
Member	NEP/SOM and NEP/HES Position Search Committees

PROFESSIONAL & SERVICE ACTIVITIES

Current/Recent Institutional Service: Human Environmental Sciences and School of Medicine

2019	Chair	HES Student Services Re-envisioning *Ad Hoc* Committee
2016 – 2017	Member	School of Medicine Mission-Based Management Committee
2015 – 2017	Member	HES General Degree Task Force

Current/Recent Institutional Service: University of Missouri (campus-level)

2019 – present	Interviewer	George C. Brooks Underrepresented UG Scholarship Program
2017 – present	Chair	Undergraduate Curriculum Committee (UGCC)
2017	Interviewer	Stamps Scholars -- Honors College Selection Committee
2015 – present	Interviewer	MedOpp Medical/Dental School Interview Committee
2015 – 2017	Member	Undergraduate Curriculum Committee (UGCC)
2013	Member	Internal review of the Office of Undergraduate Research Task Force
2010 – 2018	Member	Committee on Undergraduate Education (CUE)
2010 – 2011	Member	Campus Writing Program Task Force
2008 – 2011	Member	Campus Parking and Transportation Committee
2008	Member	Campus Dining Services' Student Employee Scholarship Committee

Current Professional Activities: ad hoc Reviewer

2011 – present	Judge, Graduate Poster Competition. **Vitamins & Minerals Research Interest Group**, Experimental Biology
2006 – present	Miscellaneous journals (~3-5 per month; e.g. *Journal of Experimental Biology & Medicine*, *Acta Biochimica Polonica*, *British J of Medicine and Medical Research*, *Nutrition*, *J of Nutrition Research*, *J of Women's Health*, *Cell Health & Cytoskeleton*, *Biofactors*, *Cytokines*, *Nutrients*, *Int J of Obesity*, *J of Pediatrics*, *British J of Nutrition*)
2005 – present	**American Journal of Nutrition** and **Journal of Nutrition** (~2 manuscript per year)
2004 – present	**University of Missouri Research Board** (1 proposal per year)
2004 – present	**Journal of the Academy of Nutrition and Dietetics** (~2 manuscripts per year)

Membership in Professional Organizations

2018 – present	**National Association of Advisors for the Health Professions**
2012 – present	**Endocrine Society**
1990 – present	**American Society for Nutrition**

HONORS

2018	College of Human Environmental Sciences Distinguished Faculty Service Award
2016	Nominated for MU Advisors Forum Excellence in Advising Award
2015	Nominated for the Advising Shout Out! Award
2014	College of Human Environmental Sciences Distinguished Teacher Award
2012	College of Human Environmental Sciences Nutritional Sciences Schade Scholar Award
2011	Nominated for Campus Technology in Teaching Award
2010	Nominated for College of Human Environmental Sciences Outstanding Teacher Award
2008	Nominated for 2008 MU Office of Research Outstanding Undergraduate Research

Mentor award
Nominated for College of Human Environmental Sciences Outstanding Teacher Award

HONORS (continued)

2006	College of Human Environmental Sciences Nutritional Sciences Schade Scholar Award
2005	New Faculty Teaching Scholar, University of Missouri
2000	Nominated for the University of Missouri Chapter Xi Excellence in Graduate Research Mentoring Award
1999	Contributing Author Award, American Dietetics Association's Research in Dietetic Practice Group