

CURRICULUM VITA - Carolyn Woods Gunther

Contact Information

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Education

- 2004 **Ph.D., Interdepartmental Nutrition Program**
Purdue University, West Lafayette, IN
- 1995 **B.A., Biology**
Taylor University, Upland, IN

Positions Held

- 2009-current **Assistant Professor, Adjunct** Department of Animal Sciences, Ohio State University, Columbus, OH (approved by the faculty, 9/09)
- 2009-current **Faculty Member** Ohio Agricultural Research and Development Center (OARDC), College of Food, Agricultural, Environmental Sciences, Ohio State University, Columbus, OH
- 2007-current **Director** Office of Research, College of Education and Human Ecology, Ohio State University, Columbus, OH
- 2007-current **Director and Lecturer** (Principal Investigator status, 6/09; Graduate Faculty M status, 7/09) Department of Human Nutrition, Ohio State University, Columbus, OH
- 2004-2007 **Assistant Director**, Department of Human Nutrition, Ohio State University, Columbus, OH
- 2002-2003 **Nutrition Research Consultant**, Indiana University Clinical Research Unit, Indianapolis, IN

- 2000-2004 **Graduate Teaching and Research Assistant**, Department of Foods & Nutrition, Purdue University, West Lafayette, IN
- 1998-2000 **Research Assistant**, Division of Pediatric Gastroenterology & Nutrition, Children's Hospital Medical Center, Cincinnati, OH
- 1995-1998 **Immunology Technologist**, Division of Infectious Diseases, Vaccine Testing & Evaluation Unit, St. Louis University Medical Center, St. Louis, MO
- 1992-1994 **Summer Dietary Aide**, Department of Nutrition, Doctors Hospital, Columbus, OH

Professional Honors and Awards

- 2010 Nominated as Outstanding Research Mentor, Ohio State University
- 2004 Foods & Nutrition Outstanding Graduate Student Award, Purdue University
- 2002-2003 Outstanding Teaching Assistant Award, Purdue University

Professional Memberships

- American Society for Nutrition – Associate Member
- National Council of University Research Administrators – Regular Member
- The Obesity Society – Regular Member
- Ohio State University, Center for Clinical and Translational Science – Associate Member
- Ohio State University, Food Innovation Center – Associate Member

Professional Training

1. Ohio State University, John Glenn School of Public Affairs, Management Advancement for Public Affairs
 - Being the Best Boss, Oct 11, 2011 (0.6 CEU)

Committees and Administrative Services

1. Experimental Biology, American Society of Nutrition, Nutrition Education, "Aligning Nutrition Education Programs and Research to Promote Change"
 - Mini-symposium Chair and Abstract Reviewer, 2012.
2. USDA NIFA W2003, "How to Motivate Parents to Promote Intake of Calcium Rich Foods among Early Adolescents"
 - Committee Chair, 2010-2011.
3. Ohio State University
 - Administrative Research Council (ARC), 2007-present.
 - Judge, Denman Research Forum, 2011.
 - Panelist, Grant Writing and Mentoring, Initiative in Population Research, 2011.
4. Ohio State University, College of Education and Human Ecology
 - Undergraduate Research Scholarship Review Committee, 2009.
 - Undergraduate Recruitment Committee, 2008-2010.

- Office of Research Advisory Committee, Ex Officio Member, 2008-present.
5. Ohio State University, Department of Human Nutrition
 - Dietetic Internship Review Committee, 2008, 2010, 2011.
 - Russell Klein Award Committee, 2008.
 - Judge, Russell Klein Symposium, 2011.
 6. Mid-Ohio Regional Planning Commission
 - Technical Advisory Committee for Creating a Better Food System for Weinland Park, 2011-present.

Review Activities

Journals:

1. American Journal of Clinical Nutrition, 2011

Grants:

1. Ohio State University, College of Education and Human Ecology, Office of Research Seed Grant Review Panel, 2008-present.

Publications

Peer-Reviewed Manuscripts:

1. Monnat LE, Kennel J, Holloman C, Kaye G, **Gunther CW**. Determining the impact of milk vending purchases on calcium intake in college vending consumers. *Submitted to Public Health Nutr*.
2. Reicks M, Degeneffe D, Ghosh K, Bruhn C, Goodell SL, **Gunther C**, Auld G, Ballejos M, Boushey C, Cluskey M, Misner S, Olson B, Wong SS, Zaghoul S. (2011) Parent calcium-rich-food practices/perceptions are associated with calcium intake among parents and their early adolescent children. *Public Health Nutr*. [Epub ahead of print]
3. Reicks MM, Ballejos ME, Goodell SL, **Gunther CW**, Richards R, Wong SS, Auld G, Boushey CJ, Bruhn C, Cluskey M, Misner S, Olson B, Zaghoul S. (2011) Personal and family correlates of calcium-rich food intake among parents of early adolescent children. *J Am Diet Assoc*. 111:376-384.
4. Teegarden D, **Gunther CW**. (2008) Can the controversial relationship between dietary calcium and body weight be mechanistically explained by alterations in appetite and food intake? *Nutr Rev*. 66:601-605.
5. Eagan MS, Lyle RM, **Gunther CW**, Peacock M, Teegarden D. (2006) Effect of 1-Year dairy product intervention on fat mass in young women: 6-month follow-up. *Obesity*. 14:2242-8.
6. **Gunther CW**, Legowski PA, Lyle RM, Weaver CM, McCabe LD, McCabe GP, Peacock M, Teegarden D. (2006) Parathyroid hormone is associated with decreased fat mass in young healthy women. *Int J Obes (Lond)*. 30:94-99.
7. **Gunther CW**, Lyle RM, Legowski PA, James JM, McCabe LD, McCabe GP, Peacock M, Teegarden D. (2005) Fat oxidation and its relation to serum parathyroid hormone in young women enrolled in a 1-y dairy calcium intervention. *Am J Clin Nutr* 82:1228-34.

8. Teegarden D, Legowski P, **Gunther CW**, McCabe GP, Peacock M, Lyle RM. (2005) Dietary calcium intake protects women consuming oral contraceptives from spine and hip bone loss. *J Clin Endocrinol Metab.* 90:5127-33.
9. **Gunther CW**, Legowski PA, Lyle RM, McCabe GP, Eagan MS, Peacock M, Teegarden D. (2005) Dairy products do not lead to alterations in body weight or fat mass in young women in a 1-y intervention. *Am J Clin Nutr.* 81:751-6.
10. Cohen MB, Giannella RA, Losonsky GA, Lang DR, Parker S, Hawkins JA, **Gunther C**, Schiff GA. (1999) Validation and characterization of a human volunteer challenge model for cholera by using frozen bacteria of the new *Vibrio cholerae* epidemic serotype, O139. *Infect Immun.* 67:6346-9.

Book Chapters:

1. Teegarden D, **Gunther CW**. (2008) Minerals and Food Intake: A Human Perspective. In *Appetite and Food Intake: Behavioral and Physiological Considerations*, edited by Ruth BS Harris and Richard D Mattes. CRC Press, Taylor & Francis Group. Chapter 18; pp 337-350.

Abstracts Presented at Local Meetings

1. Pennywitt J, Kennel J, Murray R, **Gunther CW**. (2011) Simple Suppers. Poster presentation, Ohio State University, Denman Research Forum *and* Russell Klein Symposium, Columbus, OH.
2. Monnat LE, Shertzer JA, Holloman CH, **Gunther CW**. (2011) Determining the impact of milk vending purchases on calcium intake in college vending consumers. Poster presentation, Ohio State University, Russell Klein Symposium, Columbus, OH.
3. Munther S, Monnat L, **Gunther CW**. (2011) Exploring motivations and/or perceived benefits and barriers underlying key parent factors associated with the intake of calcium rich foods of early adolescents. Poster presentation, Ohio State University, Denman Research Forum, Columbus, OH.

Abstracts Presented at National Meetings

1. Monnat LE, Shertzer JA, Holloman CH, **Gunther CW**. (2011) Determining the impact of milk vending purchases on calcium intake in college vending consumers. Poster presentation, Experimental Biology, Washington, DC.
2. **Gunther CW**, Bomser JA, Kaye GL. (2010) Identifying STEM competencies contained within an afterschool nutrition education behavior change program. Oral presentation, Experimental Biology, Anaheim, CA.
3. **Gunther CW**, Teegarden D, Shertzer JA. (2010) Determining the accuracy of a "quick" questionnaire in assessing calcium intake in young healthy women. Poster presentation, Experimental Biology, Anaheim, CA *and* Russell Klein Nutrition Research Symposium, Ohio State University, Columbus, Ohio.
4. Failla ML, **Gunther CW**, Bomser J, Melgar-Quinonez H, Smith A. (2009) Recruit, Retain, Refresh, Reward: The 4Rs Multicultural Scholars Program for Enhancing Diversity and Post-baccalaureate Success of Underrepresented Students at Ohio State. Poster presentation, USDA MSP/NNF Annual Meeting, Washington, DC.
5. **Gunther CW**, Branscum P, Kaye G. (2009) Dietary calcium and dairy product consumption inversely correlate with BMI percentile in children enrolled in an after-school

nutrition education behavior change program. Poster presentation, Experimental Biology, New Orleans, LA.

6. **Gunther CW**, Lyle RM, Teegarden D. (2004) One year change in log parathyroid hormone negatively predicts one year change in postprandial lipid oxidation in young women on dairy calcium intervention. Poster presentation, Experimental Biology, Washington, DC.

7. **Gunther CW**, Lyle RM, McCabe GP, Weaver CM, Teegarden D. (2003) Leptin negatively predicts total body bone mineral density in young healthy women. Poster presentation, ASBMR 25th Annual Meeting, Minneapolis, MN.

8. **Gunther CW**, Teegarden D, Lyle RM, Legowski PA, James JM, McCabe GP. (2002) Lipid oxidation increases in women following a one year dairy calcium intervention. Poster presentation, Experimental Biology, New Orleans, LA.

9. **Gunther CW**, Legowski PA, Lyle RM, Peacock M, Weaver CM, Teegarden D. (2001) Parathyroid hormone positively predicts fat mass in young healthy women. Oral presentation, Mini-symposium, Experimental Biology, Orlando, FL.

10. Legowski PA, **Gunther CW**, Eagan MS, Lyle R, Boushey CJ, Teegarden D. (2001) Can calcium intake be assessed using a “quick” questionnaire? Poster presentation, The American Dietetic Association Annual Meeting.

Research Seminars

1. Invited lecture. (2011) “Milk Vending: A Novel Approach for Improving Calcium Intake in College Students.” Nestle Research and Development, Marysville, OH.

2. Invited lecture. (2004) “Examining the Impact of Dietary Calcium on Body Weight and Fat Mass.” Ross Laboratories, Columbus, OH.

3. Invited lecture. (2004) “Examining the Impact of Dietary Calcium on Body Weight and Fat Mass.” The Ohio State University, Department of Human Nutrition, Columbus, OH.

4. Seminar speaker. (2003) “Mechanisms of Dairy Calcium’s Regulation of Body Weight.” Purdue University, Department of Foods & Nutrition, West Lafayette, IN.

5. Seminar speaker. (2003) “Dairy Calcium: A Player in Modulating the Insulin Resistance Syndrome?” Purdue University, Department of Foods & Nutrition, West Lafayette, IN.

Presentations for Lay / Public Audiences

1. Guest speaker. (2011) “Making a healthy breakfast.” Jewish Community Center, Early Childhood Preschool Program, Columbus, OH.

2. Guest speaker. (2008) “Health Disparities in Minority Populations and Undergraduate Minority Enhancement Opportunities in Nutrition at OSU.” Office of Minority Affairs, Young Scholars Program, Ohio State University, Columbus, OH.

3. Guest speaker. (2007) “Chocolate: Sinful Pleasure or Healthy Food Choice?” Stadium Scholarship Program, Ohio State University, Columbus, OH.

4. Guest speaker. (2002) “Dairy Calcium and Weight Control.” The Women’s Business Club, Lebanon, IN.

Workshops

1. Moderator for the OSU Food Innovation Center and Nationwide Children's Symposium on Making and Unmaking the Obesity Epidemic: Early Origins of Chronic Disease. (2011) Title: The early origins of health risk in pregnancy and early life. Columbus, OH.
2. Participant in USDA Multi-State Research Meeting. (2010) Title: W2003: How to motivate parents to promote intake of calcium rich foods among early adolescents. Fayetteville, AR.
3. Participant in USDA Multi-State Research Meeting. (2009) Title: W2003: How to motivate parents to promote intake of calcium rich foods among early adolescents. Davis, CA.
4. Participant in Grant Writers' Seminars and Workshops. (2009-2010) Presented by Grant Central and Dr. David Morrison.
5. Participant in USDA Multi-State Research Meeting. (2008) Title: W2003:How to motivate parents to promote intake of calcium rich foods among early adolescents. Minneapolis, MN.
6. Student representative selected by Department Head. (2003) Topic: Future Direction of Graduate Nutrition Curriculum, ASNS GNEC Winter Forum, National Department Heads Meeting. Children's Nutrition Research Center, Houston, TX.

Other

Interviews:

1. "More menus offer healthier kids' meals." (2011) Journalist, Denise Towbridge, Columbus Dispatch.
2. "Understanding the difference between organic and conventional milk." (2011) National Dairy Association.
3. "Students tackle major major issue for minorities." (2011) OSU Lantern.
4. "Food Friends: When it comes to good nutrition, pairing the right foods can either make or break a meal." (2007) Editor, Natalie Ermann Russell, Body and Soul (A Martha Stewart Publication).
5. "Race to Promote Better Health." (2006) Journalist, Laura DiGiulio, OSU Lantern.
6. "Healthy Eating on a College Student's Budget." (2005) Journalist, Jon Knausz, OSU Lantern.
7. "Study: More Milk Means More Weight Gain." (2005) Journalist, Rob Stein, Washington Post.

Reviews:

1. "Know your numbers when taking calcium." (December 2009) Editor, Martha Filipic, OSU Extension and the Ohio Agricultural Research and Development Center.

Editing:

1. Acknowledgment. Ing SW, Belury MA. (2010) Modulation of Bone Physiology by Conjugated Linoleic Acid: Possible Involvement of Peroxisome Proliferator Activated Receptor-gamma. *Submitted to Nutr Rev.*
2. Acknowledgment. Thakkar SK, Huo T, Maziya-Dixon B, Failla ML. (2009) Impact of style of processing on retention and bioaccessibility of β -carotene in cassava (*Manihot esculanta*, Crantz). *J Agric Food Chem* 57:1344-1348.
3. Acknowledgment. Thakkar SK, Failla ML. (2008) Bioaccessibility of Pro-Vitamin A

Carotenoids is Minimally Affected by Non Pro-Vitamin A Xanthophylls in Maize (*Zea mays* sp.). *J Agric Food Chem* 56:11441–11446.

4. Acknowledgment. Pullakhandam R, Failla ML. (2007) Micellarization and intestinal cell uptake of beta-carotene and lutein from drumstick (*Moringa oleifera*) leaves. *J Med Food* 10:252-257.
5. Acknowledgment. Purushotham A, Shrode GE, Wendel AA, Liu LF, Belury MA. (2007) Conjugated linoleic acid does not reduce body fat but decreases hepatic steatosis in adult Wistar rats. *J Nutr Biochem* 18:676-84.
6. Acknowledgment. Walsh KR, Haak SJ, Bohn T, Tian Q, Schwartz SJ, Failla ML. (2007) Isoflavonoid glucosides are deconjugated and absorbed in the small intestine of human subjects with ileostomies. *Am J Clin Nutr* 85:1050-6.
7. Acknowledgment. Wendel AA and Belury MA. (2006) Effects of conjugated linoleic acid and troglitazone on lipid accumulation and composition in lean and Zucker diabetic fatty (fa/fa) rats. *Lipids* 41:241-7.
8. Acknowledgment. Ferruzzi MG, Lumpkin JL, Schwartz SJ, Failla ML. (2006) Digestive stability, micellarization and uptake of β -carotene isomers by Caco-2 human intestinal cells. *J Ag Food Chem* 54: 2780-2785.
9. Acknowledgment. Chitchumroonchokchai C, Failla ML. (2006) Hydrolysis of zeaxanthin esters by carboxyl ester lipase during digestion facilitates micellarization and uptake of the xanthophyll by Caco-2 human intestinal cells. *J Nutr* 136:588-94.

Undergraduate Students Directed

1. Ohio State University, Department of Human Nutrition, Honors Program – Sarah Munther, 2010-graduation (spring 2011). Thesis: Understanding the underlying motivators and barriers of parents in promoting calcium rich foods to their adolescent children. First postbaccalaureate position – Ohio State University, Optometry School.
2. Ohio State University, Department of Human Nutrition, Honors Program, 4Rs MSP – Jackie Pennywitt, BS Nutrition, 2008-graduation (spring 2011). Thesis title: Simple Suppers: Examining the impact of a healthy cooking program for parents of young children on frequency and quality of meals as a family. First postbaccalaureate position – Ohio State University, Medical School.
 - Competitive Awards: (1) Denman Research Forum, 3rd Place Award, Health Sciences Section (spring 2011); (2) OSU Board of Trustees Student Recognition Award (spring 2011).
3. Ohio State University, Department of Human Nutrition, 4Rs MSP – Maria Rodriguez-Santos, 2009-graduation (spring 2010). First postbaccalaureate position – Ohio State University, Nutrition Practitioner Graduate Program.
4. Ohio State University, Department of Human Nutrition – Kellie Franzinger, BS Nutrition, 2008-graduation (spring 2009). First postbaccalaureate position – University of Cincinnati, Physical Therapy Graduate Program.

Graduate Students Directed

1. Ohio State University, Department of Human Nutrition – Laura Monnat, MS Nutrition, 2009-graduation (anticipated spring 2011). Thesis: Determining the impact of milk

vending purchasers on calcium intake in college vending consumers. First post-graduate position – Cleveland Clinic, Dietetic Internship Program.

• Competitive Awards: (1) T Kline Hamilton Graduate Research Award, \$1715 (spring 2010); (2) Department of Human Nutrition Outstanding Graduate Teaching Award (spring 2010); (3) Russell Klein Scholar Award (spring 2011).

Graduate Student Committees

1. Ohio State University, Department of Human Nutrition – Alyssa Mark, MS Nutrition, 2009-graduation (spring 2011). First post-graduate position – NIH, Dietetic Internship Program.

2. Ohio State University, Department of Human Nutrition – Sam Anzeljc, PhD Nutrition, 2008-graduation.

Current, Past, and Pending Support

Current:

1. Student Wellness Portal nad Healthiest Campus Campaign

Investigators: Goodway J (PI), Murray R (co-I), Onate J (co-I), Petosa R (co-I), Weidong L (co-I), Focht B (co-I), Belury M (co-I), **Gunther C** (co-I), Kaye G (co-I), Habash D (co-I), Smith L (co-I), Anzeljc (co-I)

Agency: OSU Food Innovation Center

Period: 2012-2013

Amount: \$2500

2. Healthy Cycle Menu

Investigators: Kennel J (PI), **Gunther C** (co-I), Kaye G (co-I), Ritter J (co-I)

Agency: Ohio Department of Education, Office for Child Nutrition

Period: 2011-2012

Amount: \$100,000

3. Simple Suppers: A novel approach to preventing childhood obesity

Investigators: McDowell J (PI), **Gunther C** (co-PI), Gabbe P (co-I), Kennel J (co-I), Kleinhenz M (co-I), Miller C (co-I), Murray R (co-I), Patrick T (co-I)

Agency: OSU Food Innovation Center

Period: 2011-2012

Amount: \$24,864

4. Training Competitive Nutrition Scientists from Underrepresented Backgrounds in 21st Century Skills to Stem the Tide of Childhood Obesity

Investigators: Failla M, Belury M, Goodway J, **Gunther C**, McDowell J, Melgar-Quinonez H, Murray R, Sellars M.

Agency: USDA-NIFA MSP

Period: 1/15/2011-1/14/16

Amount: \$126,000

5. Recruit, Retain, Refresh, Reward: The 4 “Rs” Multicultural Scholars Program for Enhancing Diversity and Post-Baccalaureate Success of Under-Represented Students in Nutrition Sciences at The Ohio State University.

Investigators: Failla M, **Gunther C**, Smith A, Melgar-Quinonez H, DiSilvestro R, Bomser J.

Agency: USDA

Type: MSP

Period: 1/15/2008-7/14/12

Amount: \$105,000

6. How to Motivate Parents to Promote Intake of Calcium Rich Foods among Early Adolescents

Investigators: Boushey C, Bruhn C, Cluskey M, Devareddy L, Ballejos M, Goodell S, **Gunther C**, Johnston P, Misner S, Novotny R, Reicks M, Richards R, Wong SS

Agency: USDA NIFA

Type: W2003 Multistate

Period: 10/1/08-9/30/13

7. Promoting Dairy Calcium Intake in College Students through Access to On-Campus Milk Vending Machines

Investigators: **Gunther C**, Eastridge M, Kaye G, Nathanson AI, Shertzer JA.

Agency: American Dairy Association Mideast

Period: 3/15/2010-2/28/2012

Amount: \$20,000

Past:

1. A Transdisciplinary Approach to Obesity Prevention in Preschool Age Children

FIC Investigators: Murray R, Achterberg C, Kleinhenz M, McDowell J, Scharff R

Other Investigators: Nathanson A, Goodway J, Kaye G, **Gunther C**, Melgar-Quinonez H, Pirie P, Sykes D, Graffino C, Lomax R

Agency: Food Innovation Center

Period: 2010-2011

Amount: \$25,000

Pending:

1. Simple Suppers: A novel approach to preventing childhood obesity

Investigators: **Gunther C** (PI), Battista M (co-I), Goodway J (co-I), Kennel J (co-I),

Agency: General Mills Foundation

Period: 2012-2013

Amount: \$50,000

Teaching*

Course Name	Position Title	Professor/Lecturer	Graduate Course	Credit Hours	Location	Approximate Enrollment

Essentials of Nutrition	Teaching Assistant	Donna Zoss, MS, RD		3	Purdue University	450+
Human Sensory Systems	Teaching Assistant	Richard Mattes, PhD, MPH, RD	X	3	Purdue University	15
Issues and Controversies in Nutrition	Guest Lecturer	Hugo, Melgar-Quinonez, MD, PhD		3	Ohio State University	55
Vitamin and Mineral Metabolism	Lecturer	Earl Harrison, PhD, Carolyn Gunther, PhD	X	5	Ohio State University	30
Human Nutrition Seminar	Course Director	Carolyn Gunther, PhD	X	1	Ohio State University	20

*Summary of course evaluations is available upon request