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I. EDUCATION, HONORS AND WORK EXPERIENCE

A. Educational Background

- 1993 - 1996 **Ph.D. in Nutrition and Metabolism**
University of Alberta, Edmonton, Alberta
Thesis Title: Short-Chain Fatty Acids Enhance Intestinal
Adaptation in Rats Receiving Total Parenteral Nutrition: A
Multiorgan Analysis
- 1992 - 1993 **Administrative Dietetic Internship Program**
Misericordia Hospital, Edmonton, Alberta
- 1988 - 1992 **Bachelor of Science (Food and Nutrition)**
With Distinction and First Class Standing
University of Alberta, Edmonton, Alberta

B. Academic Positions

- 2012 – present **Kraft Foods Human Nutrition Endowed Professor**
Division of Nutritional Sciences
University of Illinois at Urbana Champaign
- 2010 – present **Editor-in-Chief**
Journal of Parenteral and Enteral Nutrition
- 2008 - present **Professor of Nutrition and GI Physiology**
Department of Food Science and Human Nutrition
Division of Nutritional Sciences
University of Illinois at Urbana-Champaign
- 2006 - 2009 **Associate Dean**
Graduate College, University of Illinois at Urbana-Champaign
- 2003 - 2008 **Associate Professor of Nutrition and GI Physiology**
Department of Food Science and Human Nutrition
Division of Nutritional Sciences
University of Illinois at Urbana-Champaign
- 1997 - 2003 **Assistant Professor of Nutrition and GI Physiology**
Department of Food Science and Human Nutrition
Division of Nutritional Sciences
University of Illinois at Urbana-Champaign
- 1996 - 1997 **Post-Doctoral Fellow**
Department of Integrative Biology, Physiology & Pharmacology
University of Texas, Houston Health Sciences Center

C. Scholarships, Honors and Awards

2012 Inaugural Fellow of the American Society for Parenteral and Enteral Nutrition (FASPEN)

Recognition as an A.S.P.E.N. Fellow is a very high honor aimed at showing deep respect for members who go over and above for A.S.P.E.N. as an organization and who demonstrate a profound dedication to clinical nutrition and metabolism.

2011 University of Illinois Distinguished Teacher-Scholar Award

This is the premier campus award recognizing scholarly contributions and excellence in the areas of teaching and learning. The title of University Distinguished Teacher-Scholar is permanent throughout the recipient's appointment at Illinois.

2011 University of Illinois College of Agricultural, Consumer and Environmental Sciences Senior Faculty Award for Excellence in Teaching

Awarded annually to recognize outstanding professional achievement and demonstrated excellence in the area of teaching.

University of Illinois Incomplete List of Teachers Ranked As Excellent by Their Students

Received for teaching FSHN 120 (1998, 1999), FSHN 329/429 (1998, 1999, 2001, 2002, 2003, 2005, 2010), FSHN 320/420 (2003, 2005, 2008, 2009, 2010), NUTRS 461/561 (1999, 2005) based on Instructor and Course Evaluation questionnaire forms (top 10% of faculty) maintained by the Office of Instructional Resources.

2010 University of Illinois Excellence in Undergraduate Teaching Award

Awarded annually to a faculty member demonstrating sustained excellence and innovative approaches to undergraduate teaching and learning.

2009 University of Illinois University Scholar

Awarded annually to recognize excellence while helping to identify and retain the university's most talented teachers, scholars and researchers.

2008 American Dietetic Association Excellence in Dietetic Research Award

Awarded annually to recognize an individual having demonstrated excellence in the area of research.

2007 Teacher Fellow Award from the North American Colleges and Teachers of Agriculture

Awarded annually to individuals whose efforts represent the very best in agricultural higher education.

2007 University of Illinois College of Agricultural, Consumer and Environmental Sciences Faculty Award for Excellence in Teaching

Awarded annually to recognize outstanding professional achievement and demonstrated excellence in the area of teaching.

2005 American Society for Parenteral and Enteral Nutrition Dudrick Research Scholar Award

Awarded annually to recognize and support an investigator who has shown significant achievements in nutrition support, demonstrates exceptional research productivity and the potential to continue to make contributions in the field of Specialized Nutrition Support.

2004 University of Illinois College of Agricultural, Consumer and Environmental Sciences Faculty Award for Excellence in Research

Awarded annually to recognize outstanding professional achievement and demonstrated excellence in the area of research.

2004–07, 2007-10, 2011-14 University of Illinois College of Agricultural, Consumer and Environmental Sciences Academy of Teaching Excellence

The Academy of Teaching Excellence comprises a select group of College faculty who affirms and encourages excellence in teaching and advising by providing teaching development programs, leadership and support to foster advances in instruction, and promoting excellence in undergraduate and graduate education.

2003 American Society for Nutrition Sciences Bioserv Award

Given for meritorious research in nutrition by an investigator who received the doctoral degree in the ten years preceding the month the award is presented. The work recognized must involve the nutrition of experimental animals used as models.

2001 University of Illinois Department of Food Science and Human Nutrition Outstanding Faculty Award

Awarded annually to recognize an outstanding faculty member within the Food Science and Human Nutrition department.

1999 International Life Sciences Institute – North America Future Leader Award

Given to promising nutrition and food scientists to allow new investigators the opportunity to add to an existing project or to conduct exploratory research that might not receive funding from other sources.

1999 and 2006 University of Illinois Nutritional Sciences Graduate Student Association Faculty Award

Awarded annually by the Nutritional Sciences Graduate Student Association in recognition of an outstanding faculty member.

1998 National Institute of Health Promising Young Investigator Award

Awarded by the Nutritional and Health Benefits of Inulin and Oligofructose Conference Scientific Advisory Committee.

1998 American Society of Parenteral and Enteral Nutrition Harry M. Vars Award

Awarded annually for the best research presentation by a young investigator at the Clinical Congress, as a tribute to Dr. Vars and his pioneering developments in total parenteral nutrition.

1997–99 Natural Sciences and Engineering Research Council of Canada Postdoctoral Fellowship

Awarded to recipient in the fields of engineering, computing and mathematical sciences, physics and chemistry, earth sciences and ecology, cellular and molecular biology, and life sciences and psychology, based on academic excellence, research ability or potential, communication skills, and interpersonal and leadership abilities.

1996, 1997 and 1998 American Society of Parenteral and Enteral Nutrition Dietitian Research Award

Awarded annually to a dietitian for the most outstanding research conducted in nutrition and metabolic support in furtherance of optimum nutritional care within the practice of dietetics.

1996–97 University of Alberta Walter H. Johns Graduate Fellowship

Awarded to all full-time students in graduate degree programs who are receiving major scholarships from the Natural Sciences and Engineering Research Council of Canada.

1996–97 Province of Alberta Graduate Fellowship

Awarded competitively to Canadian citizens or permanent residents that have completed at least one year of graduate study and be registered full-time in a doctoral program.

1996–97 NSERC Industrial Postgraduate Scholarship

Awarded to highly qualified science and engineering graduates. The support allows for the gain in research experience in industry while undertaking advanced studies in Canada. These scholarships aim to encourage scholars to consider research careers in industry wherein they will be able to strengthen Canadian innovation.

1996 Canadian Association of Gastroenterology Fellows Research Award

Awarded by participants of the 5th Canadian Association of Gastroenterology Fellow's Course, in recognition of an outstanding research presentation.

1995 and 1997 American Society for Nutritional Sciences/Proctor & Gamble Graduate Student Research Award

In recognition of an outstanding abstract submitted by a graduate student at the 1995 and 1997 Experimental Biology meeting.

1995 and 1997 American Society for Nutritional Sciences/Proctor & Gamble Oral Competition Award

In recognition of an outstanding research presentation by a graduate student presenting in the oral competition at the 1995 and 1997 Experimental Biology meeting.

1995 University of Alberta J. Gordon Kaplan Graduate Student Award

Awarded to full-time doctoral and master's students in support of approved travel expenses related to presentation of research.

1995 Canadian Federation of Nutritional Sciences and Wyeth-Ayerst Canada, Inc. Mary Ecclestone Graduate Student Award

In recognition of an outstanding paper in the field of nutrition presented at the 38th Annual Meeting of the Canadian Federation of Biological Sciences, Saskatoon, SK.

1995 Canadian Dietetic Association Exhibitor's Award

In recognition of great potential within the profession of dietetics.

1994 University of Alberta Elizabeth Russell MacEachran Scholarship

Awarded annually to full-time students in graduate degree programs in a discipline in the Faculty of Agriculture & Forestry and Home Economics, preferably in the field of food science and nutrition.

1994, 1995 and 1996 University of Alberta Anthony Fellowship in Human Nutrition

Awarded annually to an outstanding full-time student in, or admissible to, a graduate degree program in the field of human nutrition whose research best demonstrates a commitment to utilize fundamental metabolic nutrition to enhance the prevention of disease and the promotion of health.

1992 Alberta Registered Dietitian Association Audrey Dundas Award in Administrative Dietetics

In recognition of the graduating student from the nutrition major with the highest standing during the final two years who is proceeding into a dietetic internship.

1986–88 Alberta Heritage Foundation Alexander Rutherford Heritage Scholarship

Awarded to Alberta high school graduates since 1980 demonstrating high school achievement.

D. Research Awards Received by Mentees During Training with Dr. Tappenden

- 2012** **Jennifer Barnes** - American Society for Parenteral and Enteral Nutrition Harry M. Vars Research Award, Promising Investigator Award
Hannah Holscher - David H. Baker Nutrition Scholar Award, Division of Nutritional Sciences, University of Illinois
Jennifer Barnes – James L. Robinson Nutrition Impact Award, Division of Nutritional Sciences, University of Illinois
- 2011** **Hannah Holscher** – James L. Robinson Nutrition Impact Award, Division of Nutritional Sciences, University of Illinois
Hannah Holscher – Nutrition Symposium Poster Presentation, First Place
University of Illinois at Urbana-Champaign, Division of Nutritional Sciences
- 2010** **Jennifer Barnes** - American Society for Nutritional Sciences Predoctoral Fellowship
Hannah Holscher – Department of Food Science and Human Nutrition Outstanding Teaching Assistant Award
Hannah Holscher – Kappa Delta Sorority Graduate Fellowship
Frank Belsisis - RAPII Outstanding Project Paper, Outstanding Project Poster, and Outstanding Project Presentation
- 2009** **Heather F. Mangian** - American Society for Parenteral and Enteral Nutrition Harry M. Vars Research Award, Promising Investigator Award
Heather F. Mangian - American Society for Parenteral and Enteral Nutrition Promising Investigator Award
- 2008** **Jennifer Barnes**- Food Science and Human Nutrition Outstanding Research Undergraduate Student, University of Illinois
Camera Miller- Outstanding Project Papers – Research Apprentice Program, College of ACES, University of Illinois at Urbana-Champaign
Carina Dominguez- Outstanding Project Posters – Research Apprentice Program, College of ACES, University of Illinois at Urbana-Champaign

- 2007** **Angela Latsiou** - Outstanding Project Poster – Research Apprentice Program, College of ACES, University of Illinois at Urbana-Champaign
- 2005** **Bianca A. Maples** – Nutrition Symposium Oral Presentation, First Place
University of Illinois at Urbana-Champaign, Division of Nutritional Sciences
- 2004** **Anne L. Bartholome** – David H. Baker Nutrition Scholar Award, Division of Nutritional Sciences, University of Illinois
Anne L. Bartholome – American Society for Parenteral and Enteral Nutrition Harry M. Vars Research Award
David M. Albin – College of ACES Graduate Student Research Award, University of Illinois
Kristin Reifsteck – Food Science and Human Nutrition Outstanding Research Undergraduate Student, University of Illinois
Renu M. Stephen – Nutrition Symposium Poster Presentation, First Place
University of Illinois at Urbana-Champaign, Division of Nutritional Sciences
- 2003** **Keri A. Kles** – James L. Robinson Nutrition Impact Award, Division of Nutritional Sciences, University of Illinois
David M. Albin – Gamma Sigma Delta Professional Development Award
Kristin Reifsteck – Food Science and Human Nutrition Outstanding Research Undergraduate Student, University of Illinois
- 2001** **Keri A. Kles** – American Society for Nutritional Sciences/Procter & Gamble Graduate Student Research Award
Anne L. Bartholome - American Society for Nutritional Sciences/Procter & Gamble Graduate Student Research Award
Anne L. Bartholome - Nutrition Symposium Oral Presentation, First Place
University of Illinois at Urbana-Champaign, Division of Nutritional Sciences
Nancy Correa-Matos – American Society for Clinical Nutrition Young Investigator Award Finalist
Keri A. Kles – American Society for Parenteral and Enteral Nutrition Harry M. Vars Research Award
Laura A. Milo - American Society for Parenteral and Enteral Nutrition Harry M. Vars Research Award Finalist
Anne L. Bartholome – American Society for Nutritional Sciences Predoctoral Fellowship
- 1999** **Keri Kles** - American Society for Nutritional Sciences/Procter & Gamble Graduate Student Research Award

E. Professional Societies

American Dietetic Association (#879197)
 American Gastroenterology Association (#169755)
 American Physiological Society
 American Society for Nutrition
 American Society of Parenteral and Enteral Nutrition (#25883)
 Canadian Association of Gastroenterology
 Canadian Society of Nutritional Sciences

Dietitians of Canada (#15203)
Gastroenterology Research Group
North American Colleges and Teachers of Agriculture
Society for Experimental Biology and Medicine

Elected Offices Held in Professional Societies

American Gastroenterological Association

Nutrition and Obesity Council Chair, AGA Institute Scientific Council, 2011-2013;
Vice-Chair, 2009-2011

American Society for Nutrition

Secretary/Treasurer, Medical Nutrition Council, 2006-2008
Continuing Medical Education Subcommittee, 2009-2012
Co-Chair, 2010-2011; Chair, 2011-2012

American Society for Parenteral and Enteral Nutrition

Director of Research, Board of Directors, 2003-2006
Vice President, Board of Directors, 2006-2007
President-Elect, Board of Directors, 2007-2008
President, Board of Directors, 2008-2009
Immediate Past-President, Board of Directors, 2009-2010

American Society for Parenteral and Enteral Nutrition Rhoads Research Foundation

Secretary/Treasurer, Board of Directors, 2003-2004
President, Board of Directors, 2004-2006
Secretary/Treasurer, Board of Directors, 2004-2007
Director, 2008-2011

F. Research Proposal Review Panels

Special Emphasis Panel (ZDK1-GRB8), National Institute of Diabetes and Digestive and Kidney Diseases of the National Institutes of Health, 2003-05, 2007

Clinical and Integrative Gastrointestinal Pathobiology Study Section, National Institute of Diabetes and Digestive and Kidney Diseases of the National Institutes of Health, February 2005

National Research Service Award Postdoctoral Fellowship Review Panel (ZRG1 F06 (20) L), National Institute of Diabetes and Digestive and Kidney Diseases of the National Institutes of Health, 2005-07.

Crohn's and Colitis Foundation of Canada Grants in Aid of Research Review Panel, 2005

American Society for Parenteral and Enteral Nutrition Rhoads Research Foundation Grant Review Panel, 2000-01, 2003-04 (Chair), 2006 (Chair)

Canadian Institutes of Health Research, Nutrition Peer Review Section, 2004, 2009-10

Ad-hoc reviewer for: Canadian Dairy Association – 2000

Texas Women's University – 2001, 2002
UIUC Campus Research Board – 1997, 2001, 2002, 2010
United States Department of Agriculture – 1999–2002
North Carolina Biotechnology Center – 2002
Canadian Crohn's Colitis Foundation – 2004

Editorial Boards and Publication Review Contributions

Editor-In-Chief, *Journal of Parenteral and Enteral Nutrition*, 2010-15

Associate Editor, *Gastroenterology*, Intestinal Failure, 2006 Feb;130(2):suppl 2.

Associate Editor, *Journal of Nutrition*, EB'04 proceedings, 2003 Nov;133(11)

Associate Editor, *Gastroenterology*, Micronutrients in Parenteral Nutrition: Too Little or Too Much?
2009 Nov;137(5): Supplement, Pages 1-134.

American Dietetic Association *Support Line* Editorial Board, 1998 - 1999

Journal of Parenteral and Enteral Nutrition Current Summaries Editorial Board, 1998 - 2001

Intestine Editorial Board, 2002 – present

Journal of Nutrition Editorial Board, 2003 – 2007

Current Nutrition Reviews Editorial Board, 2004 – present

World Journal of Gastroenterology Editorial Board, 2006 – present

Current Opinion in Clinical Nutrition and Metabolic Care, 2008 - present

Ad-hoc Reviewer for: *American Journal of Physiology*, *Biochimica et Biophysica Acta*, *BMC Physiology*,
Canadian Journal of Physiology and Pharmacology, *Comparative Biochemistry and Physiology*, *Digestion*, *Digestive
Diseases and Sciences*, *Endocrinology*, *Experimental Biology and Medicine*, *Gastroenterology*, *Gut*, *Journal of
Nutrition*, *Journal of Nutritional Biochemistry*, *Journal of Pediatric Surgery*

II. FUNDED RESEARCH PROJECTS AND SOURCES

A. Principal Investigator

Tappenden KA, Dilger RN, Kent AD, Miller MJ 05/12-04/15	Abbott Nutrition <i>Enhanced cognition in neonatal piglets through pre- and/or probiotic containing infant formula providing beneficial impact on the microbiota-gut-brain axis.</i>	Pending \$600,000
Tappenden KA, Chang EB, Kent A, Miller M, Musch M, White B 4/12-3/16	National Institutes of Health- 1 R01 DK090616-01A1 <i>Butyrate-Induced Intestinal Adaptation.</i>	Pending \$1,535,915
Tappenden KA, Dilger RN, Donovan SM, Drackley JK, Fahey GC, Gaskins HR, Miller MJ, Stein HH, Swanson KS 6/11	Office of Research, College of ACES <i>Proposal to Secure Funds to Replace and Update Failing Modified Using chamber Equipment</i>	\$32,733
Tappenden KA 12/09-6/12	Abbott Nutrition <i>Impact of Human Milk Oligosaccharides on Maturation of the Intestine</i>	\$281,349
Tappenden KA 6/10-12/12	Phibro Animal Health Corporation <i>Impact of Virginiamycin on the Development of Intestinal Structure and Functional Capacity in Growing Piglets.</i>	\$204,819
Tappenden KA 1/08-12/12	NPS Pharmaceuticals, Inc. <i>Stimulation of Intestinal Development in Neonatal Piglets by Teduglutide</i>	\$270,544
Tappenden KA 12/07-03/10	Nestle Nutrition, USA <i>The Effect of a Probiotic Containing Infant Formula on Local Markers of Immunity, Inflammation and Gut Health</i>	\$246,124
Tappenden KA 5/07-4/09	The Beverage Institute for Health and Wellness <i>The Regulation of Intestinal Water Absorption by Optimizing Beverage Composition in Humans</i>	\$254,129
Tappenden KA, Chang EB, Holst JJ, Musch M. 3/02-3/08	National Institutes of Health – R01 <i>Short-chain fatty acid enhanced intestinal adaptation.</i>	\$1,119,998

Tappenden KA 8/97-current	Protein Technology, Inc. <i>Unrestricted Research Funds</i>	\$50,000
Tappenden KA 7/98-current	Trust-Private Gift <i>Various Donors Unrestricted Research Funds</i>	\$40,000
Tappenden KA 7/99-current	U.S. Department of Agriculture <i>Dietary fiber and gastrointestinal function.</i>	\$28,000
Tappenden KA 7/06-12/07	The Beverage Institute for Health and Wellness <i>The Regulation of Intestinal Water Absorption in an Animal Model of Dehydration by Optimizing Beverage Composition</i>	\$192,000
Tappenden KA 5/05-5/07	The Beverage Institute for Health and Wellness <i>The regulation of intestinal water absorption by optimizing beverage composition.</i>	\$384,965
Tappenden KA 1/05-1/07	NPS Pharmaceuticals, Inc. <i>A study of the efficacy and safety of teduglutide in subjects with parenteral nutrition-dependent short bowel syndrome.</i>	\$73,637
Tappenden KA 9/05-1/07	Nestle Nutrition <i>Effects of prebiotic containing infant formula on fecal microbiota.</i>	\$202,622
Tappenden KA 5/05-08/06	Nestle Nutrition <i>The effect of a prebiotic-containing elemental enteral formula in a piglet model of pediatric gastrointestinal dysfunction</i>	\$121,979
Tappenden KA 3/05-2/06	Wyeth Ayerst Global Pharmaceuticals <i>Development of a GLP-2 bioassay to investigate intestinotrophic colostrum samples.</i>	\$34,407
Tappenden KA 4/04-6/05	Nestle Nutrition <i>Effect of protein source and degree of hydrolysis on intestinal adaptation during gastrointestinal hypoperfusion in piglets.</i>	\$90,705
Tappenden KA 1/03-1/05	NPS Allelix Corporation <i>GLP-2 and Necrotizing Enterocolitis.</i>	\$198,586
Tappenden KA, Donovan SM, Gaskins HR. 7/01-6/03	Illinois Council for Food and Agricultural Research <i>Neonatal intestinal function and resistance to diarrhea: Impact of soy fiber.</i>	\$93,000

Tappenden KA 1/01-12/01	UIUC Campus Research Board <i>Short-chain fatty acid enhanced intestinal adaptation.</i>	\$25,000
Tappenden KA, Donovan SM, Gaskins HR, White B, Issacson R. 7/98-6/01	Illinois Council for Food and Agricultural Research <i>Neonatal Intestinal Function and Resistance to Diarrhea: Impact of Soy Fiber</i>	\$123,000
Tappenden KA 1/99-2/01	American Society for Parenteral and Enteral Nutrition <i>Prevention of bowel ischemia with optimized nutrition.</i>	\$50,000
Tappenden KA 1/98-12/98	UIUC Campus Research Board <i>Strategies to optimize the nutritional support provided to the critically ill.</i>	\$25,000

B. Co-Principal Investigator

Tappenden KA, Wheeler RP 11/07-11/10	Alfred P. Sloan Foundation <i>Implementation of a Centrally-Administered, Campus-Wide, Sustainable Professional Science Masters Program</i>	\$330,336
Tappenden KA, Wheeler RP 4/07-3/09	Council of Graduate Studies <i>PhD Completion Project- Phase II</i>	\$50,000
Tappenden KA, Wheeler RP 7/07-12/07	Alfred P. Sloan Foundation <i>To support Phase II of planning for a campus-wide PSM Initiative</i>	\$45,000
Tappenden KA, Wheeler RP 3/07-6/07	Alfred P. Sloan Foundation <i>To support a planning grant for campus-wide PSM Initiative</i>	\$43,575
Donovan SM, Gaskins HR, Tappenden KA 1/01-6/03	Wyeth-Ayerst Research <i>Development of nutritional therapies to enhance intestinal function of neonates.</i>	\$115,000
Erdman JW, Tappenden KA 1/99 - 12/01	Protein Technologies Incorporated <i>Effects of soy protein on reducing the progression of renal nephropathy in males with Type 2 Diabetes Mellitus.</i>	\$100,000

C. Co-Investigator

Braundmeier-Fleming A, Dilger A, Donovan	Bill and Melinda Gates Foundation <i>Supplementation of the maternal diet with an anti-oxidative</i>	Pending \$1,849,075
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SM, Monaco Sigel M, Tappenden KA. 7/12-6/15	<i>micronutrient diet during gestation and lactation enhances pre and post-natal development and reduces induction of preterm labor.</i>	
Burrin DG, Baracos VE, Holst JJ, Tappenden KA. 7/00-6/05	National Institutes of Health – R01 <i>Minimal enteral nutrient requirements in neonates.</i>	\$1,104,750
Dong FL, Lee S, Cadwallader K, Donovan S, Tappenden KA 8/04-7/12	USDA Cooperative State Research Extension and Service (CSREES) <i>Future Foods Illinois</i>	\$64,331
Donovan SM, Tappenden KA. 7/01-6/03	Illinois Council for Food and Agricultural Research <i>Soybean isoflavones as modulators of neonatal intestinal development.</i>	\$47,500
Merchen NR, Tappenden KA. 7/00-6/03	Illinois Council for Food and Agricultural Research <i>Effects of extruded fiber on digestibility and gastrointestinal characteristics.</i>	\$146,998
Erdman JW, Tappenden KA. 7/99-6/01	Illinois Council for Food and Agricultural Research <i>Effect of soy protein on reducing the progression of diabetic renal nephropathy.</i>	\$135,266

D. Support for Training and Scientific Meetings

Freund GG, Gaskins RH, Kelley KW, Dantzer R, Woods JA, Johnson RW, Tappenden KA, Donovan SM. 4/08-13/13	National Institutes of Health – 5T32DK059802-05 <i>Training in Inflammation and Nutritional Dysfunction.</i>	\$855,593
Tappenden KA 12/03-12/11	National Institutes of Health- 5U13DK064190-05 <i>A.S.P.E.N. Research Workshops on Clinical Nutrition</i>	\$500,000
Tappenden KA 5/06-4/08	National Institutes of Health 1R13DK075229 <i>Intersociety Nutrition Research Workshop: A joint effort between the American Society of Parenteral and Enteral Nutrition, American Dietetic Association, American Society for Nutrition, and the North American Society for the Study of Obesity</i>	\$20,000

<p>Tappenden KA 11/02-03/03</p>	<p>Teaching Enhancement Grant, College of ACES, UIUC <i>Teaching FSHN 329 Using the Problem-Based Approach</i></p>	<p>\$1,500</p>
<p>Donovan SM, Beverly JL, Drackley JK, Garrow TA, Gaskins HR, Layman DK, Nakamura M, Tappenden KA. 7/02-6/05</p>	<p>United States Department of Agriculture National Needs Predoctoral Fellowships <i>Training in Human Nutrition.</i></p>	<p>\$276,000</p>
<p>Donovan SM, Freund GG, Gaskins HR, Johnson RW, Kelley KW, Tappenden KA, Woods J. 4/02-3/07</p>	<p>National Institutes of Health – 5T32DK059802-05 <i>Training in Inflammation and Nutritional Dysfunction.</i></p>	<p>\$1,022,337</p>

III. RESEARCH DISSEMINATION

A. Doctoral Thesis

Short-Chain Fatty Acids Enhance Intestinal Adaptation in Rats Receiving Total Parenteral Nutrition: A Multiorgan Analysis - University of Alberta.

B. Books Edited

1. Langnas AN, Bianchi A, Quigley EM, **Tappenden KA** (eds). *Intestinal Failure: Diagnosis, Management and Transplantation*. Oxford, England: Blackwell Publishing, 2008.

C. Invited Book Chapters

1. Chung BM, **Tappenden KA**. Macronutrient Digestion, Absorption and Metabolism. In: Buchman AL (ed.), *Clinical Nutrition in Gastrointestinal Disease*. Thorofare, NJ: Slack Incorporated, 2006.
2. **Tappenden KA**, Zimmerman B. Evidence-Based Practice. In: Gottschlich MM (ed.), *The A.S.P.E.N. Nutrition Support Core Curriculum: A Case-Based Approach – The Adult Patient*. Dubuque, IA: Kendall/Hunt Publishing Company, 2007.
3. Woodard JN, **Tappenden KA**. The role of humoral factors in intestinal adaptation. Langnas AN, Bianchi A, Quigley EM, Tappenden KA (eds). In: *Intestinal Failure: Diagnosis, Management, and Transplantation*. Oxford, England: Blackwell Publishing, 2008.
4. **Tappenden KA**. Application of Research, Derivation of Guidelines and Evidence-Based Practice. In: Mueller C. (ed.), *The A.S.P.E.N. Adult Nutrition Support Core Curriculum, 3rd Edition Patient*. Dubuque, IA: Kendall/Hunt Publishing Company, *in press*.
5. Barnes JL, **Tappenden KA**. Nutrition in Inflammatory Bowel Disease & Short Bowel Syndrome. In: *Nutrition in the Prevention and Treatment of Disease (Third Edition)*. San Diego, California: Academic Press, *in press*.
6. Barnes JL, **Tappenden KA**. Intestinal Adaptation Following Resection. In: *Nutrition and Metabolism in Surgery*. Rio de Janeiro, Brazil: Rubio Editora, *in press*

D. Peer-Reviewed Journal Publications

1. Pratt VC, **Tappenden KA**, McBurney MI, Field CJ. Short-chain fatty acid-supplemented total parenteral nutrition improves nonspecific immunity after intestinal resection in rats. *Journal of Parenteral and Enteral Nutrition* 1996;20(4):264-271.
2. **Tappenden KA**, Thomson AB, Wild GE, McBurney MI. Short-chain fatty acids increase proglucagon and ornithine decarboxylase messenger RNAs after intestinal resection in rats. *Journal of Parenteral and Enteral Nutrition* 1996;20(5):357-362.
3. **Tappenden KA**, Thomson AB, Wild GE, McBurney MI. Short-chain fatty acid-supplemented total parenteral nutrition enhances functional adaptation to intestinal resection in rats. *Gastroenterology* 1997;112:792-802.

4. McBurney MI, Reimer RA, **Tappenden KA**. Short chain fatty acids, intestinal adaptation and nutrient utilization. *Advancements in Experimental Medicine and Biology* 1997;427:135-143.
5. **Tappenden KA**, Drozdowski LA, Thomson AB, McBurney MI. Short-chain fatty acid-supplemented total parenteral nutrition alters intestinal structure, glucose transporter 2 (GLUT2) mRNA and protein, and proglucagon mRNA abundance in normal rats. *American Journal of Clinical Nutrition* 1998;68:118-125.
6. **Tappenden KA**, McBurney MI. Systemic short-chain fatty acids rapidly alter gastrointestinal structure, function, and expression of early response genes. *Digestive Diseases and Sciences* 1998 Jul;43(7):1526-1536.
7. **Tappenden KA**. Invited Review: Nutritional regulation of intestinal adaptation. *American Dietetic Association Support Line* 1998;20:18-23.
8. **Tappenden KA**. The human Na⁺-glucose cotransporter is a molecular water pump. *Journal of Parenteral and Enteral Nutrition* 1999;23(3):173-174.
9. Coleman MD, **Tappenden KA**. Invited Review: Enteral Feeding Equipment - From the 15th Century to the New Millennium. *American Dietetic Association Support Line* 1999;21(5):22-27.
10. Kles KA, Wallig MA, **Tappenden KA**. Luminal nutrients exacerbate intestinal hypoxia in the hypoperfused jejunum. *Journal of Parenteral and Enteral Nutrition* 2001;25(5):246-253.
11. Miller CM, **Tappenden KA**. Invited Review: Anti-aging nutrition for a healthy digestive tract. *Nutrition in Complementary Care* 2001;3(4) 67-68.
12. Albin DM, **Tappenden KA**. Advances in methods to evaluate gastrointestinal transport function. *Current Opinions in Clinical Nutrition and Metabolic Care* 2001;4(5):351-354.
13. **Tappenden KA**. Provision of phosphorylatable substrate during hypoxia decreases jejunal barrier function. *Nutrition* 2002;18(2):168-172.
14. Kles KA, Turner JR, **Tappenden KA**. 2001 Harry M. Vars Research Award. Enteral nutrients alter enterocyte function within an *in vitro* model similar to an acute *in vivo* rat model during hypoxia. *Journal of Parenteral and Enteral Nutrition* 2002;26(2):71-76.
15. Vermeirssen V, Deplancke B, **Tappenden KA**, Van Camp J, Gaskins HR, Verstraete W. Intestinal transport of the lactokinin Ala-Leu-Pro-Met-His-Ile-Arg through a Caco-2 Bbe monolayer. *Journal of Peptide Science* 2002;8(3):95-100.
16. **Tappenden KA**. Early enteral nutrition - the unanswered Ws. *Journal of Parenteral and Enteral Nutrition* 2002;26(4):230.
17. Thiesen A, **Tappenden KA**, McBurney MI, Clandinin MT, Keelan M, Thomson BK, Agellon L, Wild G, Thomson ABR. Dietary lipids alter the effect of steroids on the uptake of lipids following intestinal resection in rats. *Digestive Diseases and Sciences* 2002;47(8):1686-1696.
18. Milo LA, Reardon KA, **Tappenden KA**. Effects of short-chain fatty acid-supplemented total parenteral nutrition on intestinal pro-inflammatory cytokine abundance. *Digestive Diseases and Sciences* 2002;47(9):2049-2055.
19. Conour JE, Ganessunker D, **Tappenden KA**, Donovan SM, Gaskins HR. Acidomucin goblet cell expansion induced by parenteral nutrition in the small intestine of piglets. *American Journal of Physiology (Gastrointestinal and Liver Physiology)* 2002;283(5):G1185-1196.

20. Kles KA, **Tappenden KA**. Hypoxia differentially regulates nutrient transport in rat jejunum regardless of luminal nutrient present. *American Journal of Physiology (Gastrointestinal and Liver Physiology)* 2002;283(6):G1336-1342.
21. Thiesen A, Wild GE, **Tappenden KA**, Agellon LB, Drozdowski L, Keelan M, Thomson BK, McBurney MI, Clandinin MT, Thomson ABR. Intestinal resection- and steroid-associated alterations in gene expression were not accompanied by changes in lipid uptake. *Digestion* 2002;66(2):112-120.
22. Thiesen A, Wild GE, **Tappenden KA**, Drozdowski L, Keelan M, Thomson BK, McBurney MI, Clandinin MT, Thomson ABR. The locally acting glucocorticosteroid budesonide enhances intestinal sugar uptake following intestinal resection in rats. *Gut* 2003;52:252-259.
23. Thiesen AL, **Tappenden KA**, McBurney MI, Clandinin MT, Keelan M, Thomson BK, Wild GE, Thomson ABR. Dietary lipids alter the effect of steroids on the transport of glucose after intestinal resection: Part I. Phenotypic changes and expression of transporters. *Journal of Pediatric Surgery* 2003;38(2):150-160.
24. Teixeira SR, **Tappenden KA**, Erdman JW, Jr. Altering dietary protein type and quantity reduces urinary albumin excretion without affecting plasma glucose concentrations in BKS.cg-m +Lepr db/+Lepr db (db/db) mice. *Journal of Nutrition* 2003;133(3):673-678.
25. Thiesen AL, **Tappenden KA**, McBurney MI, Clandinin MT, Keelan M, Thomson BK, Wild GE, Thomson ABR. Dietary lipids alter the effect of steroids on transport of glucose after intestinal resection: Part II. Signaling of the response. *Journal of Pediatric Surgery* 2003;38(4):575-578.
26. Correa-Matos NJ, Donovan SM, Isaacson RE, Gaskins HR, White BA, **Tappenden KA**. Fermentable fiber reduces recovery time and improves intestinal function in piglets following *Salmonella typhimurium* infection. *Journal of Nutrition* 2003;133(6):1845-1852.
27. Guan X, Stoll B, Lu X, **Tappenden KA**, Holst JJ, Hartmann B, Burrin DG. GLP-2-mediated up-regulation of intestinal blood flow and glucose uptake is nitric oxide-dependent in TPN-fed piglets. *Gastroenterology* 2003;125(1):136-147.
28. **Tappenden KA**. Invited Opinion. Clinical Controversy: Should all hemodynamically unstable patients be NPO? *Nutrition in Clinical Practice* 2003;18(4):294-296.
29. **Tappenden KA**, Albin DM, Bartholome AL, Mangian HF. Glucagon-like peptide-2 and short-chain fatty acids: a new twist to an old story. *Journal of Nutrition* 2003;133(11):3717-3720.
30. Teixeira SR, **Tappenden KA**, Carson L, Jones R, Prabhudesai M, Marshall WP, Erdman JW, Jr. Isolated soy protein consumption reduces urinary albumin excretion and improves the serum lipid profile in men with type 2 diabetes mellitus and nephropathy. *Journal of Nutrition* 2004;134(8):1874-1880.
31. Milo MA, Correa-Matos NJ, Donovan SM, **Tappenden KA**. Neutrophil and small intestinal lymphocyte migration after *Salmonella typhimurium* infection: impact of fermentable fiber. *Journal of Pediatric Gastroenterology and Nutrition* 2004;39(1):73-79.
32. Bartholome AL, Albin DM, Baker DH, Holst JJ, **Tappenden KA**. 2004 Harry M. Vars Research Award. Supplementation of total parenteral nutrition with butyrate acutely increases structural aspects of intestinal adaptation after an 80% jejunoileal resection in neonatal piglets. *Journal of Parenteral and Enteral Nutrition* 2004;28(4):210-223.

33. Chen AC, Berhow MA, **Tappenden KA**, Donovan SM. Genistein inhibits intestinal cell proliferation in piglets. *Pediatric Research* 2005;57(2):192-200.
34. Kuzmuk KN, Swanson KS, **Tappenden KA**, Schook LB, Fahey GC. Diet and age affect intestinal morphology and large bowel fermentative end-product concentrations in senior and weanling dogs. *Journal of Nutrition* 2005;135(8):1940-1945.
35. Jeppesen PB, Sanguinetti EL, Buchman A, Howard L, Scolapio JS, Ziegler TR, Gregory J, **Tappenden KA**, Holst J, Mortensen PB. Tuduglutide (ALX-0600), a dipeptidyl peptidase-IV resistant glucagon-like peptide-2 analog, improves intestinal function in short bowel syndrome patients. *Gut* 2005;54(9):1224-1231.
36. **Tappenden KA**. Which Nutrients are Processes by a Poorly Perfused Gut? *Nutrition in Clinical Practice* 2003;18(4):294-296.
37. Kraus TA, Brimnes J, Liu J, Moran TM, **Tappenden KA**, Boros P, Mayer L. Mucosal tolerance induction in Peyer's patch-deficient, ligated small bowel loops. *Journal of Clinical Investigation* 2005;115(8):2234-2243.
38. **Tappenden KA**. Mechanisms of enteral nutrition-induced intestinal adaptation. *Gastroenterology* 2006;130(2 Suppl 1):S93-S99.
39. Langas AN, **Tappenden KA**. Intestinal failure: current and emerging therapies including transplantation. *Gastroenterology* 2006;130(2 Suppl 1):S1-S2.
40. Thymann T, Burrin DG, **Tappenden KA**, Bjornvad CR, Jensen SK, Sangild PT. Formula-feeding reduces lactose digestive capacity in neonatal pigs. *British Journal of Nutrition* 2006; 95:1075-1081.
41. Sangild PT, **Tappenden KA**, Malo C, Petersen YM, Elnif J, Bartholome AL, Buddington RK. Glucagon-like peptide 2 stimulates intestinal nutrient absorption in parenterally fed newborn pigs. *Journal of Pediatric Gastroenterology and Nutrition*. 2006;43(2):160-167.
42. Commare CE, **Tappenden KA**. Development of the infant intestine – implications for nutrition support. *Nutrition in Clinical Practice* 2007; 22(2):159-173.
43. Albin DM, Wubben JE, Rowlett JM, **Tappenden KA**, Nowak RA. Changes in Small Intestinal Nutrient Transport and Barrier Function After Lipopolysaccharide Exposure in Two Pig Breeds. *Journal of Animal Science* 2007;85(10):2517-23.
44. Apanavicius CJ, Powell KL, Vester BM, Karr-Lilienthal LK, Pope LL, Fasting ND, Wallig MA, **Tappenden KA**, Swanson KS. Fructan supplementation attenuates decreased food intake, fever, and epithelial sloughing from Salmonella challenge in weanling puppies. *Journal of Nutrition* 2007;137(8):1923-1930.
45. **Tappenden KA**, Deutsch AS. The physiological relevance of the intestinal microbiota - contributions to human health. *Journal of the American College of Nutrition* 2007;26(6):697S-683S.
46. Thiesen A, **Tappenden KA**, McBurney MI, Clandinin MT, Keelan M, Thomson BKA, Drozdowski LA, Wild G, Thomson ABR. Dietary lipids alter the effect of steroids on the transport of fructose following intestinal resection in rats. *Digestive Diseases and Sciences* 2008;53(8):2126-2139.

47. **Tappenden KA.** A Mission Shaped by the A.S.P.E.N. Community. *Nutrition in Clinical Practice* 2008;23(3):260.
48. **Tappenden KA.** Sharing Our Expertise in Nutrition Support Therapy. *Journal of Parenteral and Enteral Nutrition* 2008;32(4):370.
49. **Tappenden KA.** Inflammation and Intestinal Function: Where Does It Start and What Does It Mean? *Journal of Parenteral and Enteral Nutrition* 2008;32(6):648-650.
50. **Tappenden KA.** Increasing Our Opportunities by Looking Beyond Our Borders. *Journal of Parenteral and Enteral Nutrition* 2008;32(5):508.
51. **Tappenden KA.** Mentoring Our Discipline- One Individual at a Time. *Nutrition in Clinical Practice* 2008;23(5):463.
52. McClave SA, Martindale RG, Vanek VW, McCarthy M, Roberts P, Taylor B, Ochoa JB, Napolitano L, Cresci G, A.S.P.E.N. Board of Directors (including **Tappenden KA**); American College of Critical Care Medicine; Society of Critical Care Medicine. Guidelines for the Provision and Assessment of Nutrition Support Therapy in the Adult Critically Ill Patient: Society of Critical Care Medicine (SCCM) and American Society for Parenteral and Enteral Nutrition (A.S.P.E.N.). *Journal of Parenteral and Enteral Nutrition* 2009;33(3):277-316.
53. **Tappenden KA.** The Integral Piece of Integration. *Journal of Parenteral and Enteral Nutrition* 2009;33(1):13.
54. Sabery N, Duggan C, American Society for Parenteral and Enteral Nutrition Board of Directors (including **Tappenden KA**). A.S.P.E.N. clinical guidelines: nutrition support of children with human immunodeficiency virus infection. *Journal of Parenteral and Enteral Nutrition* 2009;33(6):588-606.
55. Mangian HF, **Tappenden KA.** 2009 Harry M. Vars Research Award. Butyrate increases GLUT2 mRNA abundance by initiating transcription in Caco2-BBe cells. *Journal of Parenteral and Enteral Nutrition* 2009;33(6):607-17; discussion 617.
56. Buchman AL, Howard LJ, Guenter P, Nishikawa RA, Compher CW, **Tappenden KA.** Micronutrients in parenteral nutrition: too little or too much? The past, present, and recommendations for the future. *Gastroenterology* 2009;137(5 Suppl):S1-6.
57. Sherry CL, Kim SS, Dilger RN, Chung BM, Bauer LL, Tapping RI, Fahey GC, **Tappenden KA,** Freund GG. Sickness behavior induced by endotoxin can be mitigated by the dietary soluble fiber, pectin, through up-regulation of IL-4 and Th2 polarization. *Brain Behavior and Immunity* 2010 May;24(4):631-40. Epub 2010 Feb 6.
58. **Tappenden KA.** 2009 Dudrick Symposium. Emerging therapies for intestinal failure. *Archives of Surgery* 2010 Jun;145(6):528-532.
59. A.S.P.E.N. clinical guidelines: nutrition support in adult acute and chronic renal failure. Brown RO, Compher C; American Society for Parenteral and Enteral Nutrition Board of Directors (including **Tappenden KA**). *JPEN J Parenter Enteral Nutr.* 2010 Jul-Aug;34(4):366-77.
60. **Tappenden KA.** American Society for Parenteral and Enteral Nutrition 33rd Presidential Address - Quest for Excellence: Inspiration from the Ileum. *Journal of Parenteral and Enteral Nutrition* 2010 Nov-Dec;34(6):716-722.

61. Yang C, Albin D, Wang Z, Stoll B, Lackeyram D, Swanson K, Yin Y, **Tappenden KA**, Mine Y, Yada RY, Burrin D, Fan MZ. Apical Na⁺-D-glucose co-transporter (SGLT1) activity and protein abundance are expressed along the small intestinal crypt-villus axis in the neonatal pig. *American Journal of Physiology – Gastrointestinal and Liver* 2011 Jan;300(1):G60-70. Epub 2010 Oct 28.
62. Tappenden KA. Trustworthy Clinical Guidelines – How Do We Measure Up? *Journal of Parenteral and Enteral Nutrition* 2011;35(4):431.
63. Tappenden KA. Obesity—A Growing Frontier in Nutrition Support. *Journal of Parenteral and Enteral Nutrition*, 2011;35(5 suppl):3S.
64. Holscher HD, Czerkies LA, Cekola P, Litov R, Benbow M, Santema S, Alexander DD, Perez V, Sun S, Saavedra JM, **Tappenden KA**. *Bifidobacterium lactis* Bb12 enhances intestinal antibody response in formula-fed infants: a randomized, double-blind, controlled trial. *Journal of Parenteral and Enteral Nutrition*, 2012 Jan;36(1 Suppl):106S-17S.
65. Holscher HD, Faust KL, Czerkies LA, Litov R, Ziegler EE, Lessin H, Hatch T, Sun S, **Tappenden KA**. Effects of prebiotic-containing infant formula on the microbiota and gastrointestinal tolerance in a randomized controlled trial. *Journal of Parenteral and Enteral Nutrition*, 2012 Jan;36(1 Suppl):95S-105S.
66. Tappenden KA. New knowledge stimulated by debate. *Journal of Parenteral and Enteral Nutrition*, 2012;36(1):11.
67. Faust K, **Tappenden KA**. The addition of fructo-oligosaccharides and inulin to a whey-based peptide liquid diet reduces the severity and duration of weaning-induced intestinal injury in piglets. *Journal of Nutrition*, *under review*.
68. Knapp BK, Bauer LL, Swanson KS, Tappenden KA, Fahey GC Jr. Soluble fiber dextrin and soluble corn fiber supplementation modify indices of gastrointestinal health in the rat. *British Journal of Nutrition*, *under review*.
69. Barnes JL, Hartmann B, Holst JJ, **Tappenden KA**. Intestinal adaptation is stimulated by partial enteral nutrition supplemented with the prebiotic short chain fructooligosaccharide in a neonatal intestinal failure piglet model. *Journal of Parenteral and Enteral Nutrition*, *under review*.

Conference Proceedings

1. Fukatsu K, Hara E, Hiraide H. Glutamine infusion during ischemia is detrimental in a murine gut ischemia/reperfusion model. *Journal of Parenteral and Enteral Nutrition* 2003;27(3):187-192 [Discussion on paper by **Tappenden KA** included in this publication].
2. Albin DM, Bartholome AL, **Tappenden KA**. Glucose transport is enhanced by short-chain fatty acid supplemented-total parenteral nutrition in a piglet model of intestinal adaptation. *Proceedings of the 9th International Symposium on Digestive Physiology of Pigs*, 2003; V2, 220-223.
3. Albin DM, Bartholome AL, **Tappenden KA**. Amino acid and dipeptide transport are enhanced by short-chain fatty acid supplemented-total parenteral nutrition in a piglet model of intestinal

adaptation. Proceedings of the 9th International Symposium on Digestive Physiology of Pigs, 2003; V2, 241-244.

4. Wubben JE, Albin DM, Rowlett JM, **Tappenden KA**, Nowak RA. Breed and LPS challenge affect glucose, amino acid and dipeptide transport in the small intestine of gilts. Proceedings of the 9th International Symposium on Digestive Physiology of Pigs, 2003; V2, 204-206.
5. Avissar NE, Toia L, Sax HC. Epidermal Growth Factor and/or Growth Hormone Induce Differential, Side-Specific Signal Transduction Protein Phosphorylation in Enterocytes. Journal of Parenteral and Enteral Nutrition 2005;29(5):322-326 [Discussion on paper by **Tappenden KA** included in this publication].

E. Reports

1. **Tappenden KA**. Compositional and functional analysis of human mucosal biopsy samples from protocol ALX-0600-92001 (Pilot Phase IIa Clinical Trial). Clinical Report to The U.S. Department of Health And Human Services Food And Drug Administration and The European Agency for Evaluation of Medicinal Products filed March 5, 2003.

F. Abstracts (only those not yet published as peer-reviewed publications included)

1. McBurney MI, **Tappenden KA**, Baracos VE. Skeletal muscle wasting is decreased following surgical trauma by short-chain fatty acid supplementation of total parenteral nutrition. The FASEB Journal 1995;9(3):2790.
2. **Tappenden KA**, McBurney MI. Short-chain fatty acid supplementation of total parenteral nutrition reduces skeletal muscle catabolism following intestinal resection. The FASEB Journal 1996;10(3):1196.
3. **Tappenden, KA**, Baracos VE, Field CJ, McBurney MI. Short-chain fatty acids do not directly alter skeletal muscle turnover and natural killer cell cytotoxicity. Canadian Federation of Biological Societies, London, ON, June 1996.
4. **Tappenden KA**, Chen CY, Castro GA. Short-chain fatty acid-supplemented total parenteral nutrition increases electrolyte transport during the mucosal inflammatory response to *Trichinella spiralis* in rats. American College of Nutrition, New York, NY, September 1997.
5. Harris LL, **Tappenden KA**, Marvin R, Moore FA. Analysis of traditional markers of early enteral feeding intolerance and problems associated with enteral feeding. JPEN 1998; 22 (Suppl S1):9.
6. **Tappenden KA**, Marvin R, Harris LL, Moore FA. Early enteral nutrition may have detrimental effects in patients with gastrointestinal hypoperfusion. JPEN 1998; 22 (Suppl S1):34.
7. **Tappenden KA**, Noyes CT, Chen CY, Castro GA. Dietary fiber fermentability alters the ileal response to *trichinella spiralis* infection in rats. The FASEB Journal 1998;12(5):3805.
8. Fine BW, Kles KA, **Tappenden KA**. Electrophysiological response of Caco-2BBE cells to glucagon-like peptide-2 administration. The FASEB Journal 1999;13(5):734.15.
9. Cheng MY, Kles KA, **Tappenden KA**. Short-chain fatty acids enhance glutamine transport in IEC-6 cells. The FASEB Journal 1999;13(5):668.2.

10. Reardon KA, Coleman MD, Kles KA, Milo LA, **Tappenden KA**. Total parenteral nutrition supplemented with short-chain fatty acids enhances small bowel adaptation in neonatal piglets. *The FASEB Journal* 1999;13(5):199.1.
11. McCarthy MC, **Tappenden KA**, Beaulieu AD, Drackley JK, Donovan SM. Intestinal structure and function in piglets fed formulas containing long chain polyunsaturated fatty acids. *The FASEB Journal* 2000;14(4):157.3.
12. Ganessunker D, **Tappenden KA**, Donovan SM. Early enteral nutrition differentially impacts intestinal structure and function in parenterally-fed neonatal piglets. *Gastroenterology* 2000;118(4):554
13. Palkon SE, **Tappenden KA**. Luminal butyrate acutely upregulates sodium-dependent glucose and glutamine transport in rat small intestine. *The FASEB Journal* 2001;15(5):750.3.
14. Baum JI, Martin A, **Tappenden KA**, Layman DK. Evaluation of efficacy of an amylase inhibitor. *The FASEB Journal* 2001;15(4):254.7.
15. Bartholome AL, Stoll B, Burrin DG, **Tappenden KA**. Glucagon-like peptide-2 increases glucose uptake by increasing SGLT-1 and GLUT2 abundance in TPN-fed neonatal pigs. *Gastroenterology* 2002;122(4):S950.
16. Albin DM, **Tappenden KA**, Burrin DS, Lackeyram D, Fan MQ. Brush-border localization of sodium/glucose cotransporter protein in crypt and villus neonatal porcine intestinal epithelial cells. *Gastroenterology* 2002;122(4):S949.
17. **Tappenden KA**, Bartholome AL, Demchyshyn L, Lopansri J, Sanguinetti E, Blosch C, Lechago J. ALX-0600, a glucagon-like peptide-2 (GLP-2) analog, enhances intestinal structure and function in patients with short bowel syndrome (SBS). *Gastroenterology* 2002;122(4):S1250.
18. Gorski J, Buetow K, Correa-Matos NJ, **Tappenden KA**, Donovan SM. Impact of dietary long chain polyunsaturated fatty acids (LCPUFA) on intestinal structure and cytokine expression in a piglet model of necrotizing enterocolitis. *Gastroenterology* 2002;122(4):W1000.
19. Kles KA, **Tappenden KA**. Necrotizing enterocolitis piglet model featuring enteral nutrition and ischemia/reperfusion decreases barrier function, morphological injury, inflammation, and alters nutrient transport. *Gastroenterology* 2003;124(4):M936.
20. Albin DM, Bartholome AL, **Tappenden KA**. Glucose transport is enhanced by short-chain fatty acid supplemented-total parenteral nutrition in a piglet model of intestinal adaptation. *Proceedings of the 9th International Symposium on Digestive Physiology in Pigs* 2003;2:220-222.
21. Albin DM, Bartholome AL, **Tappenden KA**. Amino acid and dipeptide transport are enhanced by short-chain fatty acid supplemented-total parenteral nutrition in a piglet model of intestinal adaptation. *Proceedings of the 9th International Symposium on Digestive Physiology in Pigs* 2003;2:241-243.
22. Chung BM, Gilbert DZ, **Tappenden KA**. Luminal butyrate elicits a rapid increase in active glucose transport in the rat ileum. *Journal of Parenteral and Enteral Nutrition* 2004;28(1):008.
23. Correa-Matos NJ, Stephen RM, Donovan SM, Gaskins HR, **Tappenden KA**. Fermentable fiber enhances the exclusion immune response in piglets infected with *Salmonella typhimurium*. *Gastroenterology* 2004;126(4):T1812.

24. Stephen RM, Correa-Matos NJ, Donovan SM, Chung BM, **Tappenden KA**. The effect of fermentable fibers on intestinal function and structure following *Salmonella typhimurium* infection. *Gastroenterology* 2004;126(4):T1816.
25. Maples BA, Chung BM, **Tappenden KA**. Peptide-based diet with low amount of free amino acids enhances gastrointestinal structure and function in young pigs with compromised gastrointestinal tract. *Journal of Parenteral and Enteral Nutrition* 2005;29(1):017.
* accepted as an *Abstract of Distinction* which is awarded to those ranked among the best of those submitted.
26. Bartholome AL, Stoll B, Burrin DG, **Tappenden KA**. Glucagon-like peptide-2 increases glucose uptake by increasing SGLT-1 and GLUT2 abundance in TPN-fed neonatal piglets. *Gastroenterology* 2005;128(4):W1755.
27. Chung BM, **Tappenden KA**. Butyrate rapidly increases ileal active glucose transport in rats fed a fiber-free diet. *Gastroenterology* 2005;128(4):W1756.
28. **Tappenden KA**, Maples BA, Chung BM. Whey-based peptide diet alters gastrointestinal immunity and inflammation in piglets with a compromised gastrointestinal tract. *Journal of Pediatric Gastroenterology and Nutrition* 2005;41(4):509-510.
29. **Tappenden KA**, Maples BA, Chung BM. Peptide-based diet with low amount of free amino acids enhances gastrointestinal structure and function in piglets with compromised gastrointestinal tract. *Journal of Pediatric Gastroenterology and Nutrition* 2005;41(4):552-553.
30. Kedia G, **Tappenden KA**, Pandiella S. *In vitro* and *in vivo* prebiotic functionality of oat fractions. Food for Life Conference, Nantes, France, September 2006.
31. Powell KL, Apanavicius CJ, **Tappenden KA**, Swanson KS. Impact of fructan consumption on intestinal ion and nutrient transport in Salmonella-infected weanling dogs. *The FASEB Journal* 2006;20(4):548.
32. Faust KL, Chung BM, Powell KL, **Tappenden KA**. The modest addition of prebiotics to an elemental liquid diet alleviates the intestinal compromise associated with weaning syndrome in piglets. *Gastroenterology* 2006;130(4 Suppl 2):A745
33. **Tappenden KA**, Chung BM. Functional alterations following small bowel ischemia-reperfusion injury as a model of infant necrotizing enterocolitis. *Digestive Disease Week 2006*, Los Angeles, CA, May 2006.
34. Chung BM, **Tappenden KA**. Functional alterations following small bowel ischemia-reperfusion injury as a model of infant necrotizing enterocolitis. *Digestive Disease Week 2006*, Los Angeles, CA, May 2006.
35. Reifsteck KL, Chung BM, **Tappenden KA**. The Addition of Prebiotics to a Whey-Based Peptide Liquid Diet Alleviates Weaning-Induced Intestinal Injury in Piglets. *JPEN* 2007;31(2):S37-38
36. Donovan SM, Monaco MH, Drnevich JM, Loor JJ, **Tappenden KA**, Ramanujam KS. Supplementation of a Bovine Colostral Extract to Partial Enteral Nutrition Modulates Intestinal Barrier Function and Immune Gene Expression. *Digestive Disease Week 2007*, Washington DC, May 2007.

37. Monaco MH, Drnevich JM, Loor JJ, **Tappenden KA**, Ramanujam KS, Donovan SM. Microarray Analysis of Intestinal Gene Expression in Piglets Maintained on Total or Partial Enteral Nutrition. Digestive Disease Week 2007, Washington DC, May 2007.
38. Monaco MH, Drnevich JM, Loor JJ, **Tappenden KA**, Ramanujam KS, Donovan SM. Impact of Total Parenteral Nutrition on the Intestinal Epithelial Transcriptome. Digestive Disease Week 2007, Washington DC, May 2007.
39. Chung BM, **Tappenden KA**. Teduglutide is a potent stimulus for intestinal adaptation in a neonatal piglet model of short bowel syndrome accompanied by a parenteral nutrition therapy. Digestive Disease Week 2007, Washington, D.C., May 2007.
40. Commare CE, Donovan SM, Gaskins HR, Ramanujam K, **Tappenden KA**. The Effect of Colostrum Fractions on the Structure and Function of the Developing Intestine in Neonatal Piglets. Digestive Disease Week 2007, Washington D.C., May 2007.
41. Chung BM, **Tappenden KA**. Quantitation of the benefits of minimal enteral nutrition versus total parenteral nutrition in a pediatric model of intestinal failure. Digestive Disease Week 2007, Washington D.C., May 2007.
42. Reifsteck KL, Chung BM, **Tappenden KA**. Glucagon-Like Peptide 2 (3-33) Inhibited Ileal Mucosal Mass, But Not Intestinal Function Following Intestinal Resection in Rats. Digestive Disease Week 2007, Washington, D.C., May 2007.
43. Woodard JN, **Tappenden KA**. Butyrate upregulates proglucagon mRNA abundance through activation of the proglucagon gene promoter in NCI H716 cells. *The FASEB Journal* 2008;22(2):135.
45. **Tappenden KA**, Pertkiewicz M, Gilroy R, Allard J, Kunecki M, Sauerwein H, Joly F, McGraw N, Jeppesen P, Messing B. Teduglutide, a glucagon-like peptide-2 analog, enhances intestinal structure in short bowel syndrome (SBS) patients dependent on parenteral nutrition (PN). 16th United European Gastroenterology Week, Vienna, Austria, October 2008.
46. Deutsch AS, Barnes JL, Chung BM, **Tappenden KA**. The addition of synbiotics to partial enteral nutrition enhances intestinal adaptation in a short bowel syndrome piglet model. *Journal of Parenteral and Enteral Nutrition* 2009; 33: 184.
47. Woodard JN, **Tappenden KA**. Downregulation of GPR43 and T2R38 receptors prevents butyrate-stimulated increases in proglucagon mRNA abundance in NCI H716 cells. *Journal of Parenteral and Enteral Nutrition* 2009; 33: 182.
48. Mathai RA, **Tappenden KA**, Kuhlenschmidt TB, Kuhlenschmidt MS, Donovan SM. Gastrointestinal structural and functional responses of piglets to soy based infant formulas with varying isoflavone content as compared to cow milk based formula. *FASEB J.* 2009;23: LB436
49. Radlowski EC, Wang W, Monaco MH, Nehrling EW, **Tappenden KA**, Donovan SM. Mode of delivery and early nutrition differentially impact intestinal development of the neonatal piglet. *FASEB J.* 2009;23: LB486
50. Jeppesen PB, **Tappenden KA**, Gilroy R, O'Keefe SJ, Seidner DL, Messing B. Teduglutide, a Novel GLP-2 Analogue, Decreases Fecal Wet Weight, Sodium and Potassium Excretion in Short Bowel Syndrome (SBS) Patients Dependent On Parenteral Nutrition (PN). Submitted to 17th United European Gastroenterology Week, November 2009, London, England.

51. Jeppesen PB, **Tappenden KA**, Gilroy R, O'Keefe SJ, Seidner DL, Messing B. Influence of Teduglutide, a Novel GLP-2 Analogue, On Energy Absorption in Short Bowel Syndrome (SBS) Patients Dependent On Parenteral Nutrition (PN). Submitted to 17th United European Gastroenterology Week, November 2009, London, England.
52. Jeppesen PB, **Tappenden KA**, Gilroy R, O'Keefe SJ, Seidner D. Teduglutide, a Novel GLP-2 Analogue, Decreases Fecal Wet Weight, Sodium and Potassium Excretion in Short Bowel Syndrome (SBS) Patients Dependent On Parenteral Nutrition (PN). Submitted to 17th United European Gastroenterology Week, November 2009, London, England.
53. Jeppesen PB, **Tappenden KA**, Gilroy R, O'Keefe SJ, Seidner D. The Influence of Teduglutide, a Novel GLP-2 Analogue, On Energy Absorption in Short Bowel Syndrome (SBS) Patients Dependent On Parenteral Nutrition (PN). Submitted to 17th United European Gastroenterology Week, November 2009, London, England.
54. Nehrling EW, Bartholome AL, Albin DM, **Tappenden KA**. Short chain fatty acid supplementation increases MUC2 expression and mucin production in a short bowel piglet receiving TPN. *FASEB J*. 2010 24:102.3
55. Woodard JN, Correa-Matos NJ, **Tappenden KA**. The provision of the fermentable fibers soy polysaccharides and fructooligosaccharides increases short-chain fatty acid transporter abundance in healthy piglets. *FASEB J*. 2010 24:102.1
56. Holscher HD, Davis SR, Albin DM, **Tappenden KA**. A human milk oligosaccharide (HMO) influences cell proliferation in transformed human intestinal cells (CaCo-2Bbe & HT-29). *FASEB J* 2011;25:1b187.
57. **Tappenden KA**, Edelman J, Joelsson B. Teduglutide, a glucagon-like peptide-2 (GLP-2) analog, enhances the structure of the small intestinal mucosa without inducing dysplasia in parenteral support-dependent short bowel syndrome-intestinal failure (SBS-IF) subjects. *American College of Gastroenterology*. Washington, D.C., November 1, 2011.
** awarded the Presidential Poster Award*
58. Barnes JL, **Tappenden KA**. Intestinal Adaptation is Stimulated by Partial Enteral Nutrition Supplemented with the Prebiotic Short Chain Fructooligosaccharide in a Neonatal Intestinal Failure Piglet Model. *Journal of Parenteral and Enteral Nutrition* 2012; 36:122.
** awarded the Harry M. Vars Research Award*
59. Holscher H, Davis S, **Tappenden KA**. Human milk oligosaccharides (HMO) influence intestinal maturation *in vitro*. *Journal of Parenteral and Enteral Nutrition* 2012;36:132.
**recognized as an Abstract of Distinction*
60. Winkler M, Fujioka K, Youssef NN, Storch K, Wolf S, **Tappenden KA**, Jeppesen PB. Teduglutide enhances nutrient absorption in adult subjects with short bowel syndrome and maintains nutritional balance despite significant reduction in parenteral support. *Journal of Parenteral and Enteral Nutrition* 2012;36:127.
**recognized as an Abstract of Distinction*
61. Barnes JL, **Tappenden KA**. Chronic antibiotic administration increases intestinal mass but inhibits functional adaptation in an intestinal failure piglet model. *Experimental Biology*, San Diego, California, April 2012, accepted as oral presentation.

H. Invited Lectures, Symposia Chaired, Invited Discussant, Industry Presentations

Invited Lectures

1. Enteral Nutrition: The Basics. NUFS 452, University of Alberta, Edmonton, Alberta, March 1995.
2. Short-Chain Fatty Acid Supplementation of Total Parenteral Nutrition Increases Intestinal Adaptation Following Intestinal Resection. University of Pennsylvania Medical Center, Philadelphia, Pennsylvania, April 1996.
3. Multiorgan Response to Short-Chain Fatty Acid-Supplemented Total Parenteral Nutrition. Texas Gulf Coast Society for Parenteral and Enteral Nutrition Annual Banquet. Houston, Texas, April 199
4. Strategies to Enhance Gastrointestinal Function through Optimization of Current Nutrition Support Practices. American Society for Parenteral and Enteral Nutrition 22nd Clinical Congress, Orlando, Florida, January 1998.
5. Short-Chain Fatty Acids and Intestinal Adaptation. Texas A&M University, College Station, Texas, February 1998.
6. Regulation of Intestinal Function by Short-Chain Fatty Acids. University of Chicago, Chicago, Illinois, May 1998.
7. The R.D.'s Role in Enhancing GI Function. Eastern Illinois Dietetics Association, Urbana, Illinois, November 1998.
8. Small Intestinal Function: Implications for Nutrition Support. American Society of Parenteral and Enteral Nutrition 23rd Clinical Congress, San Diego, California, January 1999.
9. Nutrition Assessment in Clinical Practice. GI Review Course, Waikoloa, Hawaii, February 1999.
10. Short-Chain Fatty Acids: They're Not Just About the Colon. Division of Gastroenterology, University of Alberta, Edmonton, Alberta, November 1999.
11. Trauma: Do We Really Know When to Feed? American Society of Parenteral and Enteral Nutrition 24th Clinical Congress, Nashville, Tennessee, January 2000.
12. Regulation of GI Function by Short-Chain Fatty Acids. University of Florida, December 2000.
13. Beyond Graduate School: Working in Academia. Experimental Biology, '01, Orlando, Florida, April 2001.
14. Dietary Fiber and the *Small* Intestine. Nutritional Sciences, Purdue University, West Lafayette, Indiana, September 2001.
15. GLP-2 and Intestinal Function. Royal Veterinary and Agricultural University, Copenhagen, Denmark, October 2001.
16. Short-Chain Fatty Acids and Intestinal Adaptation. USDA Children's Nutrition Research Center, Houston, Texas, January 2002.
17. Regulation of Mucosal Nutrient Transport: Influence of Splanchnic Circulation. Baylor College of Medicine GI Research Group, Houston, Texas, January 2002.
18. Regulation of Intestinal Nutrient Absorption. Texas Women's University, Denton, Texas, January 2003.

19. Short-Chain Fatty Acids, GLP-2 and Intestinal Adaptation: A New Twist to an Old Story. Experimental Biology '03, San Diego, California, April 2003.
20. Butyrate Enhanced Intestinal Monosaccharide Transport. University of Chicago, Chicago, Illinois, July 2003.
21. Mechanisms of Enteral Nutrient Enhanced Intestinal Function. NIH-Sponsored Research Workshop on Intestinal Dysfunction. Las Vegas, Nevada, February 7, 2004.
22. Physiology, Pathophysiology and Implications: Feeding the Poorly Perfused Patient. Nutrition Week '04, Las Vegas, Nevada.
23. Beyond Graduate School: Working in Academia. Nutrition Week '04, Las Vegas, Nevada.
24. Short-Chain Fatty Acids, GLP-2 and Intestinal Adaptation. Mississippi State University, March 2004.
25. Nutrition Support for the Hemodynamically Unstable Patient. Canadian Society for Clinical Nutrition, Toronto, Ontario, April 2004.
26. Optimizing the Benefits, Minimizing the Risks of Nutrition Support in the Difficult to Feed CVICU Patient. Canadian Society for Clinical Nutrition, Toronto, Ontario, April 2004.
27. Nutrition and Functional Foods. Symposium on Inocuity, Preservation and Functional Foods Ties-Enlaces/US-AID/Mexico University of Illinois-Universidad Autonoma de Queretaro, Queretaro, Queretaro, Mexico, August 31, 2004.
28. The Influence of Butyrate and GLP-2 on Intestinal Adaptation. European Society for Parenteral and Enteral Nutrition, Lisbon, Portugal, September 11, 2004.
29. Teduglutide enhances intestinal structure and function in patients with short bowel syndrome. European Society for Parenteral and Enteral Nutrition, Lisbon, Portugal, September 13, 2004.
30. Butyrate and Intestinal Adaptation: It's Not Just About the Colon. Department of Pediatric Surgery, University of Cincinnati, Cincinnati, Ohio, September 27, 2004.
31. Bowel Function in Hypotension & Hypoxia. Guest faculty in Continuing Medical Education Course, "Enhancing the Safety of Parenteral & Enteral Nutrition -- Redefining Hospital Nutrition in Modern Medicine." Harvard Medical School, Cambridge, Massachusetts, November 7-9, 2004.
32. Getting Acculturated to Cultures: A Review of Probiotics in Clinical and Preventative Therapy. Food and Nutrition Conference and Exposition (American Dietetic Association). St. Louis, Missouri, September 25, 2005.
33. Bowel Function in Hypotension & Hypoxia. Guest faculty in Continuing Medical Education Course, "Enhancing the Safety of Parenteral & Enteral Nutrition -- Redefining Hospital Nutrition in Modern Medicine." Harvard Medical School, Cambridge, Massachusetts, November 6-8, 2005.
34. Feeding on Vasopressors and during Gut Hypoperfusion: Can it be done? Society for Critical Care Medicine Clinical Congress. San Francisco, CA, January 10, 2006.
35. Enteral Support of the Compromised Gut in the Critical Care Setting (S30). Clinical Nutrition Week '06, Dallas, Texas, February 12, 2006.
36. Prebiotics, probiotics and the microbiota. Clinical Nutrition Week '06, Dallas, Texas, February 12, 2006.

37. Gut Maturation and Immunology. Advances in Pediatric Nutrition Conference, Baltimore, Maryland, March 21, 2006.
38. New Medical Options for Intestinal Failure: Strategies for Growing Guts! Texas A&M University, College Station, Texas, April 25, 2006.
39. Supporting the Gut – What’s the Best Approach? International Confederation of Nutrition Support Organizations - La Asociación Mexicana de Alimentación Endovenosa y Continuing Medical Education Course, Mexico City, Mexico, August 2006.
40. Intestinal Failure: Translating Science into Effective Quality Care. American Dietetic Association’s Food and Nutrition Conference and Exposition. Honolulu, Hawaii, September 2006.
41. Pathophysiology of Intestinal Failure and Emerging Therapies. European Society for Parenteral and Enteral Nutrition Clinical Congress, Istanbul, Turkey, October 2006.
42. Bowel Function in Hypotension & Hypoxia. Guest faculty in Continuing Medical Education Course, "Enhancing the Safety of Parenteral & Enteral Nutrition -- Redefining Hospital Nutrition in Modern Medicine." Harvard Medical School, Cambridge, Massachusetts, November 6-8, 2006.
43. Butyrate - A trophic factor enhancing intestinal function. Biotecnologia Habana '06 - Bio-Medical Applications of Biotechnology, Havana, Cuba, November 2006.
44. Prebiotics and Probiotics – Strategies for Enhancing Intestinal Function. Oley Foundation Regional Conference, Phoenix, Arizona, January 27, 2007.
45. Mechanisms of Intestinal Adaptation. Guts and the City Symposium, Mt. Sinai School of Medicine, February 2, 2007.
46. The Role of Diet, Nutrition and Nutraceuticals in Disease Prevention. American Nutraceutical Association Continuing Medical Education Conference, March 24, 2007.
47. Pre- and Pro-biotics: Rationale for Regular Consumption. National Institutes of Health, Office of Dietary Supplements, April 18, 2007.
48. Nutritional Support of Gastrointestinal Function and Adaptation. Curso Avanzado de Nutrición Clínica-ICNSO, Panama City, Panamá, July 7-10, 2007.
49. PhD Completion Project at the University of Illinois. Council of Graduate Schools 2007 New Deans Institute and Summer Workshop. San Juan, Puerto Rico, July 11, 2007.
50. Beyond Enteral Nutrition: Novel Nutrients, Beneficial Bugs and Fortifying Factors. European Society for Parenteral and Enteral Nutrition Clinical Congress, Prague, Czech Republic, September 2007.
51. Bowel Function in Hypotension & Hypoxia. Guest faculty in Continuing Medical Education Course, "Enhancing the Safety of Parenteral & Enteral Nutrition -- Redefining Hospital Nutrition in Modern Medicine." Harvard Medical School, Cambridge, Massachusetts, November 4-6, 2007.
52. Emerging Therapies for Intestinal Failure. Guest faculty in Continuing Medical Education Course, "Enhancing the Safety of Parenteral & Enteral Nutrition -- Redefining Hospital Nutrition in Modern Medicine." Harvard Medical School, Cambridge, Massachusetts, November 4-6, 2007.
53. Butyrate – A Trophic Factor for Enhancing Intestinal Function. The Japan & US Collaboration Conference (JUCC) in Gastroenterology, Tokyo, Japan, November 2007.

54. Pathogenesis and Nutritional Consequences of Chronic Intestinal Failure. The XVII Brazilian Congress of Parenteral and Enteral Nutrition and the V Brazilian Congress of Clinical Nutrition, Florianopolis, Brazil, November 2007.
55. Colonization of Gut in Animal Models. Session Chair of Factors Influencing Gut Microbiota. NIH Conference on Gastrointestinal Microbiota and Advances in Prebiotic and Probiotic Research. Rockville, Maryland, December 2007.
56. Inflammation and intestinal function. ASPEN Research Workshop. Clinical Nutrition Week. Chicago, Illinois, February 2008.
57. The Gut Mucosal Barrier: Nutritional Implications. The Gastrointestinal Tract: Bench to Bedside Considerations Relative to Nutrition. ASPEN Symposium. Clinical Nutrition Week. Chicago, Illinois, February 2008.
58. Emerging therapies for intestinal failure. Experimental Biology '08. San Diego
59. State of the Art on Prebiotics. VII ICNSO Advanced Course in Clinical Nutrition. XI Latin American Congress of FELANPE. Cancun, Mexico, May 2008.
60. Emerging medical options for intestinal failure: Strategies for growing. VII ICNSO Advanced Course in Clinical Nutrition. XI Latin American Congress of FELANPE. Cancun, Mexico, May 2008.
61. Immunomodulation. XI Latin American Congress of FELANPE. Cancun, Mexico, May 2008.
62. The Gut's Response: Physiological Implications of Different Feeding Locations. XI Latin American Congress of FELANPE. Cancun, Mexico, May 2008.
63. Gut Modulation: Effect of EN on Gut Structure and Function. Nestlé Nutrition Symposium, ESPGHAN/ WSPGHAN. Igassu Falls, Brazil, August 2008.
64. Nutrition, Inflammation and Intestinal Function Children's Mercy Hospital & Clinics. Kansas City, Missouri, September 2008.
65. Dietary fiber and prebiotics in infant formulas. VII Nestle Nutrition Conference Mexico City, Mexico, October 2008.
66. Emerging Therapies for Intestinal Failure – Strategies from the Distal Gut. Ohio Society of Parenteral and Enteral Nutrition, Youngstown, OH, October 2008.
67. Feeding the Microbiome: From Paper to Patient. Food and Nutrition Conference and Exposition, Chicago, IL, October 2008.
68. Bowel Function in Hypotension & Hypoxia. Guest faculty in Continuing Medical Education Course, "Enhancing the Safety of Parenteral & Enteral Nutrition -- Redefining Hospital Nutrition in Modern Medicine." Harvard Medical School, Cambridge, Massachusetts, November, 2008.
69. Emerging Therapies for Intestinal Failure – Strategies from the Distal Gut. Clinical Nutrition Week '09, New Orleans, Louisiana, February 2009.
70. American Society for Parenteral and Enteral Nutrition 33rd Presidential Address - Quest for Excellence: Inspiration for the Ileum. Clinical Nutrition Week '09, New Orleans, Louisiana, February 2009.
71. Regulation of Gastrointestinal Function – Motivation from the Distal Gut. David H. Baker Amino Acid Symposium. American Society for Animal Sciences Midwest Sectional Meeting, Des Moines, Iowa, March 2009.

72. Emerging Therapies for Intestinal Failure. Dr. Stanley Dudrick Symposium, Yale University, New Haven, Connecticut, March 2009.
73. Intestinal Failure. Mayo School of Continuing Medical Education Clinical Nutrition Course, Amelia Island, Florida, April 2009.
74. Are Probiotics Useful in GI diseases? What is the Evidence? Mayo School of Continuing Medical Education Clinical Nutrition Course, Amelia Island, Florida, April 2009.
75. GI Immunology: Bench to Bedside. Dietitians in Nutrition Support Symposium, Seattle, WA, June 2009.
76. Fiber and Probiotics in the Treatment of Diarrhea. III Congresso Brasileiro de Nutrição Integrada e Ganepão 2009, São Paulo, Brazil, June 2009.
77. Enteral Feeding During Splanchnic Hypoperfusion. III Congresso Brasileiro de Nutrição Integrada e Ganepão 2009, São Paulo, Brazil, June 2009.
78. Impact of Nutrition on Intestinal Barrier Function. III Congresso Brasileiro de Nutrição Integrada e Ganepão 2009, São Paulo, Brazil, June 2009.
79. Handling of Short Bowel Syndrome in the U.S. III Congresso Brasileiro de Nutrição Integrada e Ganepão 2009, São Paulo, Brazil, June 2009.
80. Infant Formulas Containing Pre- and Probiotics: One Step Closer to Human Milk? Columbian Association of Pediatricians, Cartagena, Columbia, June 2009.
81. Auditing Role of the Colonic Epithelium – Insight from Novel Sensing Proteins. European Society of Parenteral and Enteral Nutrition, Vienna, Austria, August 2009.
82. The Gut's Response: Physiological Implications of Different Feeding Locations. Mexican Critical Care Society, Acapulco, Mexico, September 2009.
83. Pre- and Probiotics in the ICU. Mexican Critical Care Society, Acapulco, Mexico, September 2009.
84. Enteral Feeding during Splanchnic Hypofusion – What's Safe? Mexican Critical Care Society, Acapulco, Mexico, September 2009.
85. Nutrition Absorption and Gut Physiology – A Primer. Western Canadian Nutrition Day, Edmonton, Alberta, November 2009.
86. Nutrients and Treatments to Stimulate Intestinal Adaptation – Scientific Evidence. XVIII Brazilian Congress of Parenteral and Enteral Nutrition, Natal, Brazil, December 2009.
87. Enteral nutrition in splanchnic hypoperfusion. XVIII Brazilian Congress of Parenteral and Enteral Nutrition, Natal, Brazil, December 2009.
88. Nutritional Strategies: Feeding the Epithelium. NIH Sponsored Workshop on Intestinal Failure, Las Vegas, Nevada, February 2010.
89. Latest Advances in Intestinal Failure – Highlights of the CNW'10 Research Workshop. Clinical Nutrition Week 2010, Las Vegas, Nevada, February 2010
90. Feeding the Microbiome – From Paper to Patient. Japanese Society of Parenteral and Enteral Nutrition, Tokyo, Japan, February 2010
91. Nutricia North America Sales Force Training. Pre- and Probiotics – What are their Clinical Utility? Rockville, Maryland, April 2010.

92. Nutricia North America Sales Force Training. Pre- and Probiotics – What are their Clinical Utility? Rockville, Maryland, April 2010.
93. Nutricia North America Sales Force Training. Pre- and Probiotics – What are their Clinical Utility? Denver, Colorado, April 2010.
94. Gut Health – Importance of Dietary Fiber, Prebiotics and the Intestinal Microbiome. University of Nebraska Medical Center, Omaha, Nebraska, May 2010.
95. Gut Health – Importance of Dietary Fiber, Prebiotics and the Intestinal Microbiome. Chicago Area Pediatric Clinicians, San Francisco, California, June 2010.
96. Gut Health – Importance of Dietary Fiber, Prebiotics and the Intestinal Microbiome. San Francisco Area Pediatric Clinicians, San Francisco, California, June 2010.
97. Gut Health – Importance of Dietary Fiber, Prebiotics and the Intestinal Microbiome. Los Angeles Area Pediatric Clinicians, Los Angeles, California, June 2010.
98. Gut Health – Importance of Dietary Fiber, Prebiotics and the Intestinal Microbiome. San Diego Area Pediatric Clinicians, San Diego, California, June 2010.
99. Gut Health – Importance of Dietary Fiber, Prebiotics and the Intestinal Microbiome. Indianapolis Area Pediatric Clinicians, Indianapolis, Indiana, June 2010.
100. Gut Health – Importance of Dietary Fiber, Prebiotics and the Intestinal Microbiome. Raleigh Area Pediatric Clinicians, Raleigh North Caroline, June 2010.
101. Gut Health – Importance of Dietary Fiber, Prebiotics and the Intestinal Microbiome. Pittsburgh Area Pediatric Clinicians, Pittsburgh, Pennsylvania, August 2010.
102. Gut Health – Importance of Dietary Fiber, Prebiotics and the Intestinal Microbiome. Columbus Area Pediatric Clinicians, Columbus, Ohio, August 2010.
103. Gut Health – Importance of Dietary Fiber, Prebiotics and the Intestinal Microbiome. Salt Lake City Area Pediatric Clinicians, Salt Lake City, Utah, August 2010.
104. Gut Health – Importance of Dietary Fiber, Prebiotics and the Intestinal Microbiome. Children’s Mercy Hospital Grand Rounds, Kansas City, Missouri, August 2010.
105. Emerging Therapies for Intestinal Failure – Strategies from the Distal Gut. 6th International Symposium on Pediatric Intestinal Failure, Chicago, IL, September 2010.
106. Probiotics in Intestinal Health, Dannone Meeting of Probiotics in Intestinal Health, Jequitimar, Brazil, September 2010.
107. Clinical Guidelines for Enteral and Parenteral Nutrition, XII Latin American Congress of Clinical Nutrition and Metabolism FELANPE, Asuncion, Paraguay, October 2010.
108. Dietary Fiber and Enteral Nutrition, XII Latin American Congress of Clinical Nutrition and Metabolism FELANPE, Asuncion, Paraguay, October 2010.
109. Future of Parenteral and Enteral Nutrition, 2nd. Nutrition Congress, Monterrey, Nuevo León, México, October 2010.
110. Gut Health – Importance of Dietary Fiber, Prebiotics and the Intestinal Microbiome. Tampa Area Pediatric Clinicians, Tampa, Florida, October 2010.

111. Citrulline. 12th Symposium of the Brazilian Society for Parenteral and Enteral Nutrition, Rio de Janeiro, Brazil, November 2010.
112. Intestinal Dysfunction in Surgery, 12th Symposium of the Brazilian Society for Parenteral and Enteral Nutrition, Rio de Janeiro, Brazil, November 2010.
113. Probiotics: Pros and Cons. Heartland Kidney Network Conference, Kansas City, MO, January 2011.
114. Stimulating Intestinal Function with Prebiotics. Clinical Nutrition Week, Vancouver, BC, January 2011.
115. Best Nutrition Papers of 2010. Clinical Nutrition Week, Vancouver, BC, January 2011.
116. Stimulating Intestinal Function with Prebiotics. Tampa Area Pediatric Clinicians, Tampa, Florida, March 2011.
117. Stimulating Intestinal Function with Prebiotics. St. Louis Area Pediatric Clinicians, St. Louis, Missouri, March 2011.
118. Enteral Nutrition During Splanchnic Hypoperfusion. Colombia Clinical Nutrition Congress, Bogata, Colombia, April 2011.
119. Emerging Therapies for Intestinal Failure: Strategies from the Distal Gut. Colombia Clinical Nutrition Congress, Bogata, Colombia, April 2011.
120. Stimulating Intestinal Function with Prebiotics. Payton Manning Children's Hospital, Indianapolis, Indiana, April 2011.
121. Pre- and Probiotics for Optimal GI Health. Wisconsin Dietetic Association, Lake Geneva, Wisconsin, April 2011.
122. Bowel Function in Hypotension and Hypoxia. Surgical Grand Rounds, Rhode Island Hospital, Providence, Rhode Island, April 2011.
123. Emerging Therapies for Intestinal Failure – Strategies from the Distal Gut. GI/Surgery Research Conference, Brown University, Providence, Rhode Island, April 2011.
124. Prebiotics, Probiotics and the Microbiota. GI Pathophysiology Lecture, Rhode Island Hospital, Providence, Rhode Island, April 2011.
125. Parenteral and Enteral Nutrition in the Critically-Ill Child. European Society for Pediatric Gastroenterology, Hepatology and Nutrition, Sorrento, Italy, May 2011.
126. Emerging Therapies for Intestinal Failure. Oley Annual Meeting, Minneapolis, Minnesota, July 2011.
127. Butyrate fortification using pre- and probiotics: implications on intestinal function. 33rd European Society for Parenteral and Enteral Nutrition Congress, Gothenburg, Sweden, September 2011.
128. Inflammation and Intestinal Function. Kansas Association for Parenteral and Enteral Nutrition. September 27, 2011.
129. Inflammation and Intestinal Function. Grand Rounds at Children's Mercy Hospitals and Clinics. September 28, 2011.
130. Dietary Fiber, Prebiotics and Probiotics. 14th Congress of Parenteral and Enteral Nutrition Society of Asia (PENSA2011), Taipai, Taiwan, October 2011.

132. Butyrate fortification using pre- and probiotics: Implications on intestinal function. 14th Congress of Parenteral and Enteral Nutrition Society of Asia (PENSA2011), Taipai, Taiwan, October 2011.
133. Nutrition in the Hypoperfused Intestine. Brazilian Society for Parenteral and Enteral Nutrition, Curitiba, Brazil, November 2011.
134. Fibers in Nutrition Support: Which? When? How? Brazilian Society for Parenteral and Enteral Nutrition, Curitiba, Brazil, November 2011.
135. In the Wake of NEC – Emerging Therapies for Intestinal Failure. American Academy of Pediatrics Perinatal and Developmental Medicine Symposium, Marco Island, Florida, November 2011.
136. Optimal Nutrition Therapy for the Post-NEC Infant. American Academy of Pediatrics Perinatal and Developmental Medicine Symposium, Marco Island, Florida, November 2011.
137. Development of the Intestinal Microbiome in Infants – Nutritional Implications. Seattle Children’s Hospital, Seattle, Washington, November 2011.
138. Development of the Intestinal Microbiome in Infants – Nutritional Implications. Cincinnati Children’s Hospital Medical Center, Cincinnati, Ohio, December 2011.
139. New and Emergent Nutritional Strategies for the Management of Short Bowel Syndrome. Clinical Nutrition Week 2012, Orlando, Florida, January 2012.
140. Unmet Needs in the Treatment of Short Bowel Syndrome. Clinical Nutrition Week 2012, Orlando, Florida, January 2012.
141. Publish or Perish? The Inside Track to Successful Journal Publications. Clinical Nutrition Week 2012, Orlando, Florida, January 2012.
142. Hot Nutrition Papers of 2011. Clinical Nutrition Week 2012, Orlando, Florida, January 2012.
143. Development of the Intestinal Microbiome in Infants – Nutritional Implications. Cincinnati Area Neonatologists, Cincinnati, Ohio, February 2012.

Symposia Chaired

1. Symposium Co-Chair - Functional Foods: Growth Opportunities for the Future. Institute of Food Technologists, Chicago, Illinois, November 1999.
2. Symposium Co-Chair - Functional Foods. Experimental Biology '00, San Diego, California, April 2000.
3. Symposium Co-Chair – Metabolism. Nutrition Week '02. San Diego, California, February 2002.
4. Symposium Co-Chair - GLP-2 Function and Clinical Applications. Experimental Biology '03, San Diego, California, April 13, 2003.
5. Chair - NIH Sponsored Research Workshop on Intestinal Dysfunction. Las Vegas, Nevada, February 7-8, 2004.
6. Minisymposium Co-Chair – Intestinal Metabolism and Adaptation. Experimental Biology '04, Washington, D.C., April 2004.
7. Moderator – Pediatrics to Geriatrics Symposium. Clinical Nutrition Week '05, Orlando, Florida, February 2, 2005.

8. Moderator – Enteral Nutrition Guidelines: An International Approach. Clinical Nutrition Week '06, Phoenix, Arizona, January 30, 2007.
9. Chair - Probiotics, Prebiotics in GI Health and Disease. Digestive Disease Week May 23, 2007.
10. Chair - Factors Influencing Gut Microbiota. NIH Conference on Gastrointestinal Microbiota and Advances in Prebiotic and Probiotic Research. Rockville, Maryland, December 2007.
11. Moderator- A.S.P.E.N./ESPEN Symposium. Clinical Nutrition Week. Chicago, Illinois, February, 2008.
12. Chair- Clinical Emerging Leaders Competition. Experimental Biology '08, San Diego, April 2008.
13. Chair- Intestinal Failure Symposium. Experimental Biology '08, San Diego, April 2008.
14. Chair - Nutrition Interventions for Health Promotion Minisymposium. Experimental Biology '09, New Orleans, April 2009.
15. Chair - Nutrition and Inflammation Minisymposium. Experimental Biology '09, New Orleans, April 2009.
16. Chair - Nutrient Absorption/Nutrients and Gut Function Minisymposium. Digestive Disease Week '09, Chicago, Illinois, June 2009.
17. Chair - NIH Sponsored Research Workshop on Intestinal Failure. Las Vegas, Nevada, February 7-8, 2010.
18. Chair - Latest Advances in Intestinal Failure – Highlights of the CNW'10 Research Workshop. Clinical Nutrition Week 2010, Las Vegas, Nevada, February 2010.
19. Moderator - Scientific Paper Session: Clinical Nutrition Research. Clinical Nutrition Week 2010, Las Vegas, Nevada, February 2010.
20. Moderator – Contemporary Issues in Nutrition Support. Digestive Disease Week 2010, New Orleans, Louisiana, May 2010.
21. Chair – Digestive Disease Week 2010 Press Conference on Nutrition. Digestive Disease Week 2010, New Orleans, Louisiana, May 2010.
22. Chair - Nutritional Regulation of Intestinal Function Minisymposium. Digestive Disease Week 2010, New Orleans, Louisiana, May 2010.
23. Moderator – Gastrointestinal Minisymposium. Clinical Nutrition Week '11, Vancouver, British Columbia, Canada, February 2011.
24. Functional Foods and Gastrointestinal Health. Digestive Disease Week 2011, Chicago, Illinois, May 2011.
25. Pediatric Intestinal Failure and Transplantation. Clinical Nutrition Week 2012, Orlando, Florida, January 2012.

Invited Discussant

1. Discussant at the Premier Paper Session. Nutrition Week '03, San Antonio, Texas, January 2003.

2. Invited Discussant - Intestinal Failure Symposium. Clinical Nutrition Week '05, Orlando, Florida, February 1, 2005.
3. Invited Discussant - Premier Paper Session. Clinical Nutrition Week '05, Orlando, Florida, February 1, 2005.
4. Meet-the-Investigator Luncheon – Intestinal Adaptation and Short Bowel Syndrome. Digestive Disease Week '09, Chicago, Illinois, June 2009.

Industry Presentations

1. Short-Chain Fatty Acids Improve the Multiorgan Response to Intestinal Resection. Clintec Nutrition Company, Deerfield, Illinois, April 1996.
2. Short-Chain Fatty Acids and Intestinal Adaptation. Clintec Nutrition Company, Deerfield, Illinois, April 1996.
3. Nutritional Modulation of Gastrointestinal Function. Wyeth-Ayerst Pharmaceuticals Inc., Philadelphia, Pennsylvania, June 1999.
4. Intestinal Adaptation and ALX-0600. NPS Allelix, Inc., Salt Lake City, Utah, August 2001.
5. Intestinal Adaptation and ALX-0600. NPS Pharmaceuticals, Mississauga, Ontario, July 2003.
6. Implementation of Balance Studies in the US. NPS Pharmaceuticals Clinical Advisory Meeting, Las Vegas, Nevada, February 2004.
7. Beneficial bacteria? Implications for a healthy diet. DSM Nutritional Products, Inc. Parsippany, New Jersey, September 15, 2005.
8. Strategies for enhancing intestinal absorption. Pharmavite LLC, Valencia, California, December 11, 2006.
9. Prebiotic Continuing Education Presentation. Abbott Nutrition, Columbus, Ohio, June 2007.
10. Emerging Therapies for Intestinal Failure: Role of Butyrate. Baxter Healthcare Corporation, Deerfield, Illinois, February 2010.
11. Nutritia North America Sales Force Training. Pre- and Probiotics – What are their Clinical Utility? Rockville, Maryland, April 2010.
12. Nutritia North America Sales Force Training. Pre- and Probiotics – What are their Clinical Utility? Denver, Colorado, April 2010.

TEACHING

a. Courses Taught

Food Science and Human Nutrition 101, Introduction to Food and Nutrition

Discusses the evolution of the food system to meet the needs and desires of a complex, heterogeneous society. Provides an overview of food in relation to nutrition and health, composition and chemistry, microbiology, safety, processing, preservation, laws and regulations, quality, and the consumer. Taught Fall 1999, 2003

Food Science and Human Nutrition 120, Contemporary Nutrition

Fundamental principles of human nutrition and their application to the selection of adequate diets; current topics of nutritional importance. Taught Spring 1998, Summer 1999

Food Science and Human Nutrition 420, Nutritional Aspects of Disease

Examines nutritional, biochemical, and physiological aspects of disease processes and studies the role of nutrition in prevention, management, and treatment of disease.
Taught Fall 2003, Fall 2005, Fall 2007-11

Food Science and Human Nutrition 426, Nutritional Biochemistry I

Advanced human nutrition, with emphasis on the biochemical functions of nutrients essential for humans. Course emphasizes the role of essential nutrients in fuel metabolism, cell biology and biochemistry, gene expression and the synthesis of proteins, and generation of energy from metabolic fuels. Taught Fall 2001

Food Science and Human Nutrition 429, Advanced Clinical Nutrition/Nutrition Assessment & Therapy

Application of the principles of normal and therapeutic nutrition, nutrition assessment, nutrition intervention and evaluation as related to the management and treatment of disease states. Laboratories will allow for the development of skills in each of these areas. This course is the clinical capstone course for the dietetics curriculum. Taught Spring 1998 - 2003, Fall 2003, Fall 2005, Fall 2010-11

Food Science and Human Nutrition 490, Dietetic Internship I

Supervised learning experience in a variety of settings and locations related to clinical nutrition, community nutrition, and food service management within Urbana/Champaign and surrounding areas.
Taught Summer 1998 – 2003, Spring 2004 - 2005, Fall 2004

Food Science and Human Nutrition 491, Dietetic Internship II

Supervised learning experience in a variety of settings and locations related to clinical nutrition, community nutrition and health promotion, and food service management within Urbana/Champaign and surrounding areas. Taught Fall 1998 – 2003, Spring 2004 - 2005, Fall 2004

Nutritional Sciences 500, Nutritional Sciences Seminar

Discussions of current problems in nutritional sciences. Theme: Gastrointestinal Physiology.
Taught Fall 2003

Nutritional Sciences 511, Regulation of Metabolism

Biochemical aspects of nutrition with emphasis on the function, regulation, and metabolism of macronutrients in higher animals, including humans. Taught Spring 2001

Nutritional Sciences 561, Advanced Clinical Nutrition

Basic pathophysiological changes associated with major organ system failure and appropriate nutritional support and treatment. Provides medical orientation needed for participating in medical nutritional rounds; Taught Spring 1999 (GI Diseases and Nutrition Support), 2000, 2005 (Renal Diseases and Nutritional Therapy), 2002 (Nutrition Support), 2003, 2010 (GI Diseases and Diet Therapy), 2012 (Nutrition and Bariatric Surgery)

b. Mentoring

i. Graduate Students Directly Mentored

Kristin Reardon, M.S., R.D. 2001 - Short-chain fatty acids and intestinal adaptation: the role of GLP-2.

Mary Dean Coleman, M.S. 2001 - Effect of fermentable dietary fiber consumption on small intestinal function in humans.

Laura Milo, M.S., R.D. 2001 - The effect of short-chain fatty acids supplemented total parenteral nutrition on mucosal immunity in neonatal piglets.

Catherine Miller, Ph.D. student (left lab in 2002) - Short-chain fatty acid regulation of proglucagon transcription.

Keri A. Kles, Ph.D. 2003 - Specific alterations in intestinal function during hypoperfusion.

Coryn E. Commare, M.S., R.D. 2003 - Effect of colostrum on gastrointestinal development.

Anne L. Bartholome, Ph.D., R.D. 2004 - Mechanisms of short-chain fatty acid-induced intestinal adaptation after massive small bowel resection.

David M. Albin, Ph.D. 2004 - Short-chain fatty acid regulation of amino acid transport.

Ren Stephen, M.S. 2004 - Impact of fermentable fiber on the gastrointestinal immune system.

Nancy Correa, Ph.D. R.D. 2005 - Regulation of Salmonella infection by dietary fiber consumption.

Bianca Maples, M.S., R.D. - Effect of diet on intestinal adaptation following injury in piglets.

Fatima Ahmed, M.S. 2005 - Physiological mechanisms governing the onset and consequences of necrotizing enterocolitis.

Kristy Powell, M.S., R.D. 2007 – Regulation of intestinal water absorption by optimizing beverage composition.

Kristin Faust, M.S., R.D. 2008 – The addition of prebiotics to an elemental enteral formula and subcutaneous injections of GLP-23 (3-33) and their association with intestinal compromise, adaptation, and microbiota.

Andrew Deutsch, M.S., 2009 – The regulation of intestinal adaptation by glucagon-like peptide-2 in a neonatal piglets model of short bowel syndrome.

Jennifer Woodard, Ph.D. 2010 – Butyrate-induced expression of proglucagon: Implications for enteroendocrine signaling and intestinal growth.

Erica Nehrling, M.S. R.D., 2011 – Impact of butyrate on intestinal mucin production.

Hannah Holscher, Ph.D., expected 2012 - Effects of probiotics and prebiotics on the developing infant intestine

Heather Mangian, Ph.D., expected 2013 – The regulation of intestinal function with nutrients.

Jennifer Barnes, M.S., expected 2012 - Efficacy of Butyrate Producing Therapies for use in Pediatric Intestinal Failure Patients

Ginger Reeser, M.S., R.D., expected 2013 - Regulation of Intestinal Function by Intestinal-Derived Peptides

Jane Naberhuis, Ph.D., expected 2014 - Accelerating intestinal maturation for understanding feeding intolerance in premature infants

Brett Loman, Ph.D., R.D., expected 2015

ii. Undergraduate Students Mentored in Research Program

Maureen Cheng, 1999–2000	Barbara Fine, 1999-2000
Karla Gifford, 1999	Kendra Budelier, 2000-01
Michael Nowak, 2000	Kristin Reifsteck, 2000-04
Ruth Houseright, 2002–03	Tina Murphy, 2002-04
Christine Leick, 2002–05	Todd Weber, 2002–05
Doug Gilbert, 2003–05	Linda Lee, 2003–04
Katie Wetzel, 2003–05	Jerry Cheng, 2004–05
Jennifer Woodard, 2004–05	Elizabeth Kos, 2004–06
Andrew Deutsch, 2004–06	Bree Zimmerman, 2005–06
Shayna Peter, 2005-07	Lia Nelson, 2005–08
Joshua Lopez, 2005–08	Jennifer Barnes, 2006-08
Jennifer Westerkamp, 2007	Selina Varma, 2007-08
Anneliese Opfer, 2007–08	Jonathan Hsu, 2007-08
Michael Manious, 2007-08	Nikole Yue Qing Xue, 2008-10
Prosper Osei, 2008	Shannon Clafford, 2008-10
Alex Silva, 2008-09	Melissa Morales, 2008
Deanna Schmitt, 2008	William Davis, 2008–11
Jackie Boyd, 2009	Brandan Pflugmacher, 2009
Liz Reynolds, 2010-11	Jacob Samaan, 2009
Jamie Doligale, 2010-11	Sara Ausmus, 2010-11
Joe Costello, 2010-11	Tamara Harvatt, 2011
Christina Jablonski, 2011	

iii. Visiting Students Mentored in Laboratory

Josette Jones, University of Illinois, College of ACES, Research Apprentice Program, Summer 1998.

Elizabeth Sudlow, 1998 Summer Mentoring Program for Champaign Unit #4 Teachers.

Hassan Nixon, University of Illinois, College of ACES Research Apprentice Program, Summer 2002.

Talia Hernandez, Ties-Enlaces/US-AID/Mexico University of Illinois-Universidad Autonoma de Queretaro, Summer-Fall 2004.

Edith Agama Acevedo, Ties-Enlaces/US-AID/Mexico University of Illinois-Universidad Autonoma de Queretaro, Summer 2006.

Gopel Kedia, University of Manchester, United Kingdom, Fall 2005.

Rahimsan Ramachandran, Rønde Højskole, Denmark, Spring 2007.

Todd Gilbert, Ogden Utah, Weber State University, Summer 2007.

Mike Stein Barnkob, Odense C Denmark, University of Southern Denmark School of Medicine, Summer 2007.

Angela Latsiou, Anatolia College of Thessaloniki, Greece, Research Apprentice Program, Summer 2007.

Camerra Miller, Madison Sr. High School, Madison, IL, Research Apprentice Program, Summer 2008.

Carina Dominguez, Francis W. Parker High School, Chicago, IL, Research Apprentice Program, Summer 2008.

Jasmin Smith, Centennial High School, Champaign, IL, Research Apprentice Program, Summer 2009.

Elsy Alejandra Espinoza, Food Science and Technology Department, Zamorano University, 2010.

Belsis Francisco, Brother Rice High School, Chicago, IL, Research Apprentice II Program, Summer 2010.

Sarah Francik, University of Illinois- College of Veterinary Medicine, Urbana, IL, NIH Veterinary Intern, Summer 2010

V. COMMITTEE WORK

a. Committee Work within Professional Societies

American Dietetic Association

Support Line Mentoring Program, 1998

American Gastroenterological Association

Intestinal Disorders Section Delegate, 1999-01

Nutrition and Obesity Section Steering Committee, 2005-09

Abstract Review Subcommittee, 2006-08

American Society for Parenteral and Enteral Nutrition

Rhoads Research Foundation Committee, 1997

Journal of Parenteral and Enteral Nutrition Editor-in-Chief Search Committee, 1998

Research and Data Committee, 1999-2000

On-Line Journals Task Force, 1999

Self-Assessment Committee, 2001

Blue Ribbon Task Force on Research Chair, 2001-02

Research Section Officer, 1999-02

Research Committee Chair, 2002-04

Clinical Trials Initiative Task Force, 2003

Governance Task Force, 2004

Intersociety Research Meeting Working Group, A.S.P.E.N. representative, 2004
Blue Ribbon Journals Evaluation Task Force Chair, 2006
Journal of Parenteral and Enteral Nutrition Editor-in-Chief Search Committee Chair, 2007
Nominating Committee, Chair, 2010
Research Committee, 2010-12

American Society of Nutritional Sciences

Student Research Interest Section Co-Advisor, 2002-present
Energy and Macronutrient Research Interest Section Steering Committee, 2003-04
Bioserv Award Nominating Committee, 2004
Minority Affairs Committee, 2004
Graduate Student Research Award Abstract Review Committee, 2005
Continuing Medical Education Committee, 2008-09
Co-Chair – 2010-11, Chair – 2011-12

Latin-American Federation for Parenteral and Enteral Nutrition

International Adviser Committee, FELANPE Congress, Asunción, Paraguay, 2009-10

b. Committee Work within the University of Illinois

Department of Food Science and Human Nutrition

Strategic Planning Graduate Program Committee, 1998
Graduate Programs Committee, 1998-99
Strategic Planning Nutrition Committee, 2000
Strategic Planning Hospitality Management Committee, 2000
Search Committee, Assistant/Associate Professor of Nutrition, 2000
Awards Committee, 2002, 2005-06, 2009-11, Chair 2011-12
Courses and Curriculum Committee, 2002-03
Graduate Programs Committee, 2003-08
Search Committee, Assistant/Associate Professor of Obesity, 2004
Promotion and Tenure Committee, 2006-08, 2011-2013, Chair 2012

Division of Nutritional Sciences

External Advisory Planning Committee, 1999
Graduate Student Grievance Committee, 2000
Curriculum Review Committee, 2002
Graduate Student Review Committee, 2003
Executive Committee, 2002-04, 2009-11
Qualifier Examination Committee, 2005-08
Chair, 2008
Curriculum Review Committee, 2010-11

Department of Animal Sciences

Comparative Nutrition Assistant Professor Search Committee, 2003-04

College of Agricultural, Consumer and Environmental Sciences

Funk Service Award Selection Committee, College of ACES, 2001

Peter Reeds Memorial Committee, 2002
Research Policy Committee, 2004
Academy of Teaching Excellence, 2004-06
 Fall Symposium Planning Subcommittee, 2004-05, 2011-12
 Chair 11-12
 Spice Box Seminars Planning Subcommittee, 2004-05, 2011-12
 Chair 11-12
 Undergraduate Research Journal Subcommittee, 2004-05
 Graduate Student Mentoring Programs Subcommittee, 2004-05
Animal Care Advisory Committee, 2004-05
Research Policy Committee, 2004-06
Research Awards Selection Committee, 2005
Executive Committee Faculty Meeting Subcommittee, 2005-06; Chair 2006-07
College Executive Committee (elected), 2008-10, 2010-12, Secretary 2010-12
 Graduate Education Policy Committee Liaison, 2008-09, 2010-12
 Development Policy Committee Liaison, 2009-10
 Faculty Grievance Subcommittee, 2010-12
Service Recognition Award Selection Committee, College of ACES, 2011-12
 Chair, 2011

University of Illinois

Institutional Animal Care and Use Committee (IACUC), 2000-08
Vice-Chair, 2005-08
 Investigator Training IACUC Subcommittee, 2000
 Controlled Drugs IACUC Subcommittee, 2001
Department of Veterinary Pathology Department Head Search Committee,
 College of Veterinary Medicine, 2004
University of Illinois Senate, 2005-07
 Senate Committee on Educational Policy, 2005-07
 Chair, Subcommittee A, 2005-06
Vice-Chancellor for Student Affairs Wellness Committee, 2006-08
Office of Continuing Education Evaluation Committee, 2006-07
Dean of the Graduate College Search Committee, 2007-08
Breakthrough Knowledge and Innovation Subcommittee of the Accreditation Committee,
 2007-09
Provost's Tuition Waiver Policy Revision Committee, 2007-09
Chancellor's Wellness Committee, 2006-09
Vice-Chancellor for Student Affairs Academic Integrity Task Force, 2008-09
Vice-President for Academic Affairs Multi-Institutional Degrees Task Force, 2008-09
Vice-President for Academic Affairs Diversity and Access Task Force, 2008-09
Provost's Mid-Career Faculty Development Task Force, 2009
University Scholar Selection Committee, 2010
Targets of Opportunity Program (TOP) Selection Committee, 2011

c. Other Miscellaneous Committee Work

YWCA Speaker's Bureau, 1993-94

Chairperson, Misericordia Hospital Nutrition Month Committee, 1993
Secretary, Edmonton Nutrition Month Committee, 1993
Edmonton Nutrition Month Committee - 1994-95
Edmonton Science and Technology Hotline - Speaker's Bureau, 1993-96
Agricultural, Food and Nutritional Science Department Council, University of Alberta,
1995-96
Graduate Student Association Council, University of Alberta, 1995-96
Chairperson, Edmonton Nutrition Month Committee, 1995-96
Danville Veteran's Administration Institutional Review Board, 2000-02
Champaign Community Unit School District #4 Wellness Committee, 2005-07