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40	Department of Food Science and Human Nutrition
41	College of ACES
41	College of Medicine
41	University of Illinois

I. EDUCATION AND PROFESSIONAL EXPERIENCE:

A. EDUCATIONAL BACKGROUND:

University of California, Davis	B.S.	Nutrition Science	June 1983
University of California, Davis	Ph.D.	Nutrition, Minor in Physiological Chemistry	June 1988

Advisors: Bo Lönnerdal, PhD (UC Davis) and Stephanie Atkinson, PhD (McMaster University, Canada)
Dissertation title: Characterization of the non-protein nitrogen in human milk and availability of urea nitrogen for the premature infant.

B. PROFESSIONAL CREDENTIALS:

Registration in Dietetics (R.D.) Registration # 723942 April 1989 - present

C. ACADEMIC POSITIONS:

DEPARTMENT OF NUTRITION, UNIVERSITY OF CALIFORNIA, DAVIS, CALIFORNIA

Graduate Research and Teaching Assistant September 1983 - June 1988

DEPARTMENT OF PEDIATRICS, DIVISION OF ENDOCRINOLOGY & METABOLISM, STANFORD UNIVERSITY SCHOOL OF MEDICINE, STANFORD, CALIFORNIA

NIH Postdoctoral Fellow September 1988 - January 1991

DEPARTMENT OF NUTRITION, SAN JOSÉ STATE UNIVERSITY, SAN JOSÉ, CALIFORNIA

Visiting Lecturer August 1989 - December 1989

DEPARTMENT OF FOOD SCIENCE & HUMAN NUTRITION, UNIVERSITY OF ILLINOIS AT URBANA

Assistant Professor of Nutrition	February 1991 - July 1997
Associate Professor of Nutrition	August 1997 - July 2001
Professor of Nutrition	August 2001 - present
Melissa M. Noel Endowed Chair in Diet and Health	March 2003 – present
Director, Graduate Dietetic Internship	August 2008 – present

DEPARTMENT OF PEDIATRICS, COLLEGE OF MEDICINE, UNIVERSITY OF ILLINOIS AT CHICAGO

Adjunct Assistant Professor	May 1991 - July 1997
Adjunct Associate Professor	August 1997 – July 2001
Adjunct Professor	August 2001 - present

NUTRITIONAL SCIENCES GRADUATE PROGRAM, UNIVERSITY OF ILLINOIS AT URBANA

Member	May 1991 - present
Director	August 1999 – October 2009

INSTITUTE FOR GENOMIC BIOLOGY

Affiliate, *Regenerative Biology and Tissue Engineering Theme* February 2004 - present

SABBATICAL LEAVE, UNIVERSITY OF CALIFORNIA, DAVIS

June - December 2004

D. TEACHING EXPERIENCE:

UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN

1991- CURRENT

Contemporary Nutrition (FSHN 120)	1991 - 1994
Nutrition through the Life Cycle (FSHN 322)	1996, 1997
Nutritional Aspects of Disease (FSHN 420)	1992 - 1997
Pediatric Clinical Nutrition (FSHN 421)	1998, 2000, 2002, 2009; 2011
Current Topics in Nutritional Research (FSHN/NUTR 510)	1991, 1996

Advanced Clinical Nutrition (FSHN 520/NUTR 561)	
• Obstetrics	1999
• Diabetes	2001, 2005
• Pregnancy and Lactation	2003, 2009
Grantsmanship and Ethics (NUTR 550)	2009, 2011
Graduate Dietetic Internship I (FSHN 590)	each since Fall 2008
Graduate Dietetic Internship II (FSHN 591)	each since Spring 2009
Graduate Seminar in Nutrition (FSHN 596)	1994, 1995

SAN JOSÉ STATE UNIVERSITY, CA

Introduction to Science through Nutrition (NS 9) - *Instructor* August - December 1989

UNIVERSITY OF CALIFORNIA, BERKELEY

Therapeutic Nutrition - *Guest Lecturer* January 1989, January 1990

UNIVERSITY OF CALIFORNIA, DAVIS

Undergraduate Seminar (Nutrition 199) - *Instructor* April - June 1987, April - June 1988
 Introductory Nutrition (Nutrition 10) - *Associate-In* January - June 1986
 Diet Therapy Practicum (Nutrition 116AL) - *Teaching Assistant* September - December 1985
 Developmental Nutrition (Nutrition 114) - *Teaching Assistant* January - March 1985
 Human Nutrition (Nutrition 111) - *Discussion Leader* March - June 1984

E. CLINICAL EXPERIENCE:

January 1985 - January 1991

Nutrition Consultant:

Seneca Rehabilitation and Day Treatment Center
 San Leandro, CA

June 1985 - September 1985
 June 1986 - July 1986
 July 1986 - August 1986

Dietetic Internship:

U. C. Davis Medical Center, Sacramento, CA
 New West Dialysis Clinic, Sacramento, CA
 North Bay Regional Center, Napa, CA

June 1983 - August 1983
 June 1984 - August 1984

Nutritionist

Camp La Jolla, Florida

F. CONSULTING ACTIVITIES:

Abbott Nutrition, Columbus, OH 2009 – present

Arla Foods, Aarhus, Denmark 2007 – present

Mead Johnson Nutrition, Evansville, IN 2007 – present
 - Member Protein Advisory Board

Pfizer Nutrition (formerly Wyeth Nutritionals), Collegeville, PA 2006 – present

G. PARTICIPATION IN PROFESSIONAL SOCIETIES

American Gastroenterological Society, 1998 –
 American Society for Nutrition (Formerly ASNS and ASCN), 1989-
 Endocrine Society, 1991 – 2002
 Gamma Sigma Delta Agriculture Honor Society, Illinois Chapter 1997 –
 International Society for Research on Human Milk and Lactation, 1986
 Society for Experimental Biology and Medicine, 2003 – 2011

II. AWARDS AND RECOGNITIONS

A. HONORS AND AWARDS:

International Society for Research in Human Milk and Lactation Travel Awards:

Third International Conference on Lactation, Konstanz, FRG	September 1986
Fourth International Conference on Lactation, San José, Costa Rica	November 1988
Fifth International Conference on Lactation, Asilomar, California	November 1990

NIH Individual NRSA Postdoctoral Fellowship, Endocrinology, Nutrition, and Growth (F32 HD07226) 1989 - 1991

Katherine T. McCormick Fund for Women, Stanford University Medical Center 1989

New Investigator Travel Award, The Endocrine Society May 1990

Future Leader Award, International Life Sciences Institute North America January 1992-December 1993

Ehrlich-Koldovsky New Investigator Award, Int'l Society for Research in Human Milk and Lactation July 1995

Outstanding Faculty Award, Nutritional Sciences Graduate Student Association October 1995

Faculty Award for Excellence in Research, College of ACES, University of Illinois April 1997

Mead Johnson Research Award, American Society for Nutritional Sciences (ASNS) April 1997

University Scholar, University of Illinois August 1998-August 2001

Melissa M. Noel Endowed Chair, Dept FSHN, University of Illinois March 2003- present

Jonas Salk Award, Central Illinois Division of the March of Dimes November 2003

Outstanding Faculty Award, Nutritional Sciences Graduate Student Association November 2005

Norman A. Kretchmer Memorial Award in Nutrition & Development, American Society for Nutrition April 2006

Senior Faculty Award for Excellence in Research, College of ACES, University of Illinois April 2006

Paul A. Funk Recognition Award, College of ACES, University of Illinois April 2010

“List of Teachers Ranked as Excellent by Their Students”, University of Illinois

FSHN 120 - Contemporary Nutrition	1993
FSHN 420 - Nutritional Aspects of Disease	1992, 1993, 1994, 1995, 1996, 1997
FSHN 421 - Pediatric Clinical Nutrition	1998, 2002; 2011
FSHN 520 - Advanced Clinical Nutrition	1999, 2001, 2003
FSHN 596 - Graduate Seminar in Nutrition	1995

B. AWARDS WON BY GRADUATE STUDENTS WHILE IN TRAINING:

An-Chian Chen

- Finalist, American Society for Nutrition Science Graduate Student Abstract Competition, EB 2002
- Finalist, American Society for Clinical Nutrition Young Investigator Abstract Competition, EB 2003
- Poster of Distinction (top 10% of abstracts), Digestive Diseases Week, 2005

Nancy Correa-Matos (co-advised by Dr. Kelly Tappenden

- Finalist, American Society for Clinical Nutrition Young Investigator Abstract Competition, EB 2001

Jessica Hartke

- Jonathan Baldwin Turner Graduate Fellowship, 2001-2004

Shelly Hester

- Jonathan Baldwin Turner Graduate Fellowship, 2007-2010
- NIH Predoctoral Fellow, Division of Nutritional Sciences, 2010-2012
- William Rose Endowed Award, Division of Nutritional Sciences, 2011

Naiman Khan

- William Rose Endowed Award, Division of Nutritional Sciences, 2011

Jin Lu

- Toshiro Nishida Research Award, Division of Nutritional Sciences, 2011

Lisa Mangione

- "Outstanding Student Research Award", 1995 Society for Nutrition Education annual meeting

Mandy Mayeaux-Boquin (co-advised with Dr. Soo-Yeun Lee)

- Julia Holmes Fund Merit Award, 2008, Department of Food Science & Human Nutrition
- M.S. Student Scholarship, Sensory Division, Institute for Food Technologists (IFT), 2009
- M.S. Student Scholarship, Institute for Food Technologists (IFT), 2010
- Outstanding M.S. Student, 2010, Department of Food Science & Human Nutrition
- Henry D. and Donna E. Strunk Merit Award, 2010, Department of Food Science & Human Nutrition

Marcia H. Monaco

- ISRHML Young Investigator Travel Award to attend meeting in Stockholm Sweden, 1992

Yoo Kyoung Park

- Finalist, American Society for Nutrition Science Graduate Student Abstract Competition, EB 1997

Deshanie (Ganessunker) Rai

- Finalist, American Society for Clinical Nutrition Young Investigator Abstract Competition, EB 1998
- Travel Award, Digestive Diseases Week, 1999

Emily Radlowski

- McNeil Predoctoral Fellowship, American Society for Nutrition, 2010

Wendy Ward (co-advised by Dr. Stephanie Atkinson, McMaster University)

- Winner, American Society for Nutrition Science Graduate Student Abstract Competition, EB 1996

Xiaohui Zhao

- Finalist, American Society for Nutrition Science Graduate Student Abstract Competition, EB 1994

Ruurd Zijlstra (co-advised by Drs. Jack Odle and Rex Gaskins)

- Finalist, American Society for Nutrition Science Graduate Student Abstract Competition, EB 1996

III. RESEARCH AND OTHER SCHOLARLY ACTIVITIES

A. PUBLICATIONS († Invited publication; * PhD dissertation research; § Postdoctoral Research)

1. Doctoral Dissertation

- 1988 **Donovan SM.** Characterization of the non-protein nitrogen in human milk and availability of urea nitrogen for the premature infant. Doctorate of Philosophy. University of California, Davis, 224 pages.

2. Edited Symposium Proceedings

1. 2006 **Donovan SM, Walker WA** (editors). *Nutrition and Gastrointestinal Tract Development and Function*. Cincinnati, Ohio, June 7-8, 2005. *Journal of Pediatrics* 2006; 149: (suppl 5): S47-142.

3. Edited Monographs

1. 2008 **Donovan S, Gibson G, Newburg D** (editors). *Prebiotics in Infant Nutrition*. Mead Johnson Nutritionals, 37 pages.

4. Letters to the Editor

1. 1994 Collier RJ, Clemmons DR, **Donovan SM.** Reply to Mepham et al. Safety of milk from cows treated with bovine somatotropin. *The Lancet* 344: 815-816.

5. Invited Editorials/Commentaries

1. 1997 DeLeon DD, **Donovan SM.** *News and Views: Is breast cancer a potential side effect of GH?* *Nature Medicine* 3: 1081-1082.
2. 2009 **Donovan SM.** Human milk oligosaccharides – the plot thickens. *British Journal of Nutrition* 101: 1267-1269.
3. 2011 **Donovan SM.** Promoting bifidobacteria in the human infant intestine: Why, how and which one?. *Journal of Pediatric Gastroenterology Hepatology and Nutrition* 52: 648-9.

6. Book Reviews

1. 2007 **Donovan SM.** Review of: *Biochemical, Physiological & Molecular Aspects of Human Nutrition*, 2nd edition, Martha H. Stipanuk (editor). *American Journal of Clinical Nutrition* 85:244-5.

7. Book Chapters

- †*1. 1989 Davidson LA, **Donovan SM, Lönnerdal B, Atkinson SA.** Excretion of human milk proteins by term and premature infants. **In:** Atkinson SA, Lönnerdal B (editors), *Protein and Non-Protein Nitrogen in Human Milk*. CRC Press, Boca Raton, FL, p. 161-172.
- †*2. 1989 Atkinson SA, Schnurr CS, **Donovan SM, Lönnerdal B.** The non-protein nitrogen components in human milk: Biochemistry and potential functional role. **In:** Atkinson SA, Lönnerdal B (editors), *Protein and Non-Protein Nitrogen in Human Milk*, CRC Press, Boca Raton, FL, p. 117-136.
- †§3. 1990 Rosenfeld RG, Lamson G, Pham H, Oh Y, Conover C, DeLeon DD, **Donovan SM, Ocrant I, Giudice L.** Insulin-like growth factor binding proteins. *Recent Progress in Hormone Research* 46: 99-163.
- †4. 1994 **Donovan SM** and Odle J. Growth factors in milk as mediators of infant development. **In:** Olson RE, Bier DM, McCormick DB (editors), *Annual Reviews of Nutrition*, Volume 14. Annual Reviews Inc., Palo Alto, CA, p. 147-167.
- †5. 2008 **Donovan SM.** Human milk: Nutritional properties. **In:** Duggan C, Watkins JB, Walker WA (editors), *Nutrition in Pediatrics: Basic Science and Clinical Applications*, 4th edition. BC Decker, Inc., Hamilton, Ontario, Canada, Chapter 30, p. 341-353.

8. Peer-Reviewed Journal Publications

- *1. 1989 **Donovan SM**, Lönnerdal B. Isolation of non-protein nitrogen from human milk by gel filtration chromatography and Fast Protein Liquid Chromatography (FPLC). *American Journal of Clinical Nutrition* 50: 53-57.
- *2. 1989 **Donovan SM**, Lönnerdal B. Development of a human milk protein standard. *Acta Paediatrica Scandinavica* 78: 171-179.
- *3. 1989 **Donovan SM**, Lönnerdal B. Non-protein nitrogen and true protein in infant formulas. *Acta Paediatrica Scandinavica* 78: 497-504.
- *4. 1989 **Donovan SM**, Atkinson SA, Whyte R, Lönnerdal B. Partition of nitrogen intake and excretion in low birthweight infants. *American Journal of Diseases of Children* 143: 1485-1491.
- §5. 1989 **Donovan SM**, Oh Y, Pham H, Rosenfeld RG. Ontogeny of serum insulin-like growth factor binding proteins in the rat. *Endocrinology* 125: 2621-2627.
- *6. 1990 **Donovan SM**, Lönnerdal B, Atkinson SA. Bioavailability of urea nitrogen for the low birthweight infant. *Acta Paediatrica Scandinavica* 79: 899-905.
- *7. 1991 **Donovan SM**, Ereman RR, Dewey KG, Lönnerdal B. Postprandial changes in the content and composition of non-protein nitrogen in human milk. *American Journal of Clinical Nutrition* 54: 1017-1023.
- §8. 1991 **Donovan SM**, Hintz RL, Wilson DM, Rosenfeld RG. Insulin-like growth factors I and II and their binding proteins in rat milk. *Pediatric Research* 29: 50-55.
- §9. 1991 Ceda GP, Fielder PJ, Henzel WJ, Louie A, **Donovan SM**, Hoffman AR, Rosenfeld RG. Differential effects of IGF-I and IGF-II on the expression of IGF binding proteins (IGFBPs) in a rat neuroblastoma cell line: Isolation and characterization of two forms of IGFBP-4. *Endocrinology* 128: 2815-2824.
- §10. 1991 **Donovan SM**, Atilano LC, Wilson DM, Hintz RL, Rosenfeld RG. Differential regulation of the insulin-like growth factors and IGF binding proteins during malnutrition in the neonatal rat. *Endocrinology* 129: 149-157.
- §11. 1991 **Donovan SM**, Hintz RL, Rosenfeld RG. Insulin-like growth factors I and II and their binding proteins in human milk: Effect of heat treatment on IGF and IGF binding protein stability. *Journal of Pediatric Gastroenterology and Nutrition* 13: 242-253.
- §12. 1991 **Donovan SM**, Giudice LC, Murphy LJ, Hintz RL, Rosenfeld RG. Maternal insulin-like growth factor binding protein expression during pregnancy in the rat. *Endocrinology* 129: 3359-3366.
- §13. 1992 Ceda GP, Fielder PJ, **Donovan SM**, Rosenfeld RG, Hoffman AR. Regulation of insulin-like growth factor-binding protein expression by thyroid hormone in rat GH₃ pituitary tumor cells. *Endocrinology* 130: 1483-1489.
- §14. 1993 Lamson G, Giudice LC, Cohen P, DeLeon DD, **Donovan S**, Rosenfeld RG. Proteolysis of IGFBP-3 may be a common regulatory mechanism of IGF action in vivo. *Growth Regulation* 3: 91-95.
- †15. 1994 **Donovan SM**, Zijlstra RT, Odle J. Use of the piglet model to study the role of growth factors in neonatal intestinal development. *Endocrine Regulations* 28: 153-162.
16. 1994 **Donovan SM**, McNeil LK, Jiménez-Flores R, Odle J. Insulin-like growth factors and insulin-like growth factor binding proteins in porcine serum and milk throughout lactation. *Pediatric Research* 36: 159-168.

17. 1995 Zhao X, Unterman TG, **Donovan SM**. Human growth hormone but not human insulin-like growth factor-I enhances recovery from neonatal malnutrition in rats. *Journal of Nutrition* 125: 1316-1327.
18. 1995 **Donovan SM**, Hintz RL, Rosenfeld RG. Investigation into the potential physiological sources of rat milk IGF and IGF binding proteins. *Journal of Endocrinology* 145: 569-578.
19. 1995 Clegg MS, Keen CL, **Donovan SM**. Zinc deficiency-induced anorexia alters the distribution of serum insulin-like growth factor-binding proteins in the rat. *Metabolism* 44: 1495-1501.
20. 1995 Zhao X, **Donovan SM**. Combined growth hormone (GH) and insulin-like growth factor-I (IGF-I) treatment is more effective than GH or IGF-I alone at enhancing recovery from neonatal malnutrition in rats. *Journal of Nutrition* 125: 2773-2786.
- †21. 1996 Odle J, Zijlstra RT, **Donovan SM**. Intestinal effects of milkborne growth factors in neonatal animals of agricultural importance. *Journal of Animal Science* 74: 2509-2522.
22. 1996 Li YM, Arkins S, McCusker RH, **Donovan SM**, Jayaraman S, Dantzer R, Kelley KW. Macrophages synthesize and secrete a 25 KD protein that binds insulin-like growth factor-I. *Journal of Immunology* 156: 64-72.
23. 1996 Monaco MH, **Donovan SM**. Moderate food restriction abolishes the pregnancy-associated rise in serum growth hormone and decreases serum insulin-like growth factor-I (IGF-I) concentrations without altering IGF-I mRNA expression in rats. *Journal of Nutrition* 126: 544-55.
24. 1996 Larson MR, **Donovan SM**, Potter SM. Effects of dietary protein source on cholesterol metabolism in neonatal piglets. *Nutrition Research* 16: 1563-1574.
25. 1996 Zijlstra RT, Mies AM, McCracken BA, Odle J, Gaskins HR, Lien EL, **Donovan SM**. Short-term metabolic responses do not differ between neonatal piglets fed formulas containing hydrolyzed or intact soy proteins. *Journal of Nutrition* 126: 913-923.
26. 1996 Chao JC-J, **Donovan SM**. Effects of insulin, insulin-like growth factors, and epidermal growth factor on mitogenesis and disaccharidase activity in rat (IEC-6) and human (FHs 74 Int) intestinal cells. *Chinese Journal of Physiology* 39: 253-264.
27. 1997 **Donovan SM**, Chao J C-J, Zijlstra RT, Odle J. Orally administered iodinated recombinant human insulin-like growth factor-I (¹²⁵I-IGF-I) is poorly absorbed by the newborn piglet. *Journal of Pediatric Gastroenterology and Nutrition* 24: 174-182.
28. 1997 Monaco MH, **Donovan SM**. Alterations in the growth hormone-insulin like growth factor-I axis in food restricted lactating rats. *Journal of Endocrinology* 152: 303-316
29. 1997 **Donovan SM**, Mar M-H, Zeisel SH. Choline and choline ester concentrations in porcine milk throughout lactation. *Journal of Nutritional Biochemistry* 8: 603-607.
30. 1997 Zijlstra RT, **Donovan SM**, Odle J, Gelberg HB, Petschow BW, Gaskins HR. Protein-energy malnutrition delays small-intestinal recovery in neonatal pigs infected with rotavirus. *Journal of Nutrition* 127: 1118-1127.
31. 1997 Houle VM, Schroeder EA, Odle J, **Donovan SM**. Small intestinal disaccharidase activity and ileal villus height are increased in piglets consuming formula containing recombinant human insulin-like growth factor-I. *Pediatric Research* 42: 78-86.
32. 1997 Monaco MH, **Donovan SM**. Insulin-like growth factor-I infusion increases skeletal muscle and mammary α -amino[1-¹⁴C]isobutyric acid (AIB) accumulation *in vivo* in food restricted lactating rats. *Nutrition Research* 17: 1143-1154.

33. 1998 Massé PG, Ziv I, Cole DEC, Mahuren JD, **Donovan SM**, Yamauchi M, Howell DS. A cartilage matrix deficiency experimentally induced by vitamin B6 deficiency. *Proceedings of the Society for Experimental Biology & Medicine* 217: 97-103.
34. 1998 Gautsch TA, Kandl SM, **Donovan SM**, Layman DK. Response of the IGF-I system to prolonged undernutrition and its involvement in somatic and skeletal muscle growth retardation in rats. *Growth, Development and Aging* 62: 13-25.
35. 1998 McCracken BA, Zijlstra RT, **Donovan SM**, Odle J, Lien EL, Gaskins HR. Neither intact or hydrolyzed soy proteins elicit intestinal inflammation in neonatal piglets. *Journal of Parenteral and Enteral Nutrition* 22: 91-97.
36. 1998 Park YK, Monaco MH, **Donovan SM**. Delivery of total parenteral nutrition (TPN) via umbilical catheterization: development of a piglet model to investigate therapies to improve gastrointestinal structure and enzyme activity during TPN. *Biology of the Neonate* 73: 295-305.
37. 1998 Ward WE, **Donovan SM**, Atkinson SA. Dexamethasone-induced abnormalities in growth and bone metabolism are attenuated by growth hormone with no synergistic effect of IGF-I. *Pediatric Research* 44: 215-221.
38. 1998 Clegg MS, **Donovan SM**, Monaco MH, Baly DL, Ensunsa JL, Keen CL. The influence of manganese deficiency on serum IGF-I and IGF binding proteins in the male rat. *Proceedings of the Society for Experimental Biology & Medicine* 219: 41-47.
- †39. 1999 Keen CL, Ensunsa JL, Watson MH, Baly DL, **Donovan SM**, Monaco MH, Clegg MS. Nutritional aspects of manganese from experimental studies. *Neurotoxicology* 20: 213-223.
40. 1999 Gautsch TA, Kandl SM, **Donovan SM**, Layman DK. Growth hormone promotes somatic and skeletal muscle growth recovery in rats following chronic protein energy malnutrition. *Journal of Nutrition* 129: 828-837.
41. 1999 Zijlstra RT, McCracken BA, Odle J, **Donovan SM**, Gelberg HB, Petschow BW, Zuckermann FA, Gaskins HR. Malnutrition modifies pig small intestinal inflammatory responses to rotavirus. *Journal of Nutrition* 129: 838-843.
42. 1999 Park YK, Monaco MH, **Donovan SM**. Orally administered insulin-like growth factor-I augments intestinal disaccharidase activity in piglets receiving total parenteral nutrition. *Journal of Pediatric Gastroenterology and Nutrition* 29:198-206.
43. 1999 Ganessunker D, Gaskins HR, Zuckermann FA, **Donovan SM**. Total parenteral nutrition alters molecular and cellular indices of intestinal inflammation in neonatal piglets. *Journal of Parenteral and Enteral Nutrition* 23: 337-344.
44. 1999 Averette LA, Odle J, Monaco MH, **Donovan SM**. Dietary fat during pregnancy and lactation increases milk fat and insulin-like growth factor I concentrations and improves neonatal growth rates in swine. *Journal of Nutrition* 129: 2123-2129.
45. 1999 Ward WE, Atkinson SA, **Donovan SM**, Paes B. Bone metabolism and circulating IGF-I and IGF-BPs in dexamethasone-treated premature infants. *Early Human Development* 56: 127-141.
46. 2000 Whang K-Y, **Donovan SM**, Easter RA. Effect of protein deprivation on subsequent efficiency of dietary protein utilization in finishing pigs. *Asian-Australian Journal of Animal Science* 13: 659-665.
47. 2000 Houle VM, Laswell SC, Freund GG, Dudley MA, **Donovan SM**. Investigation of three doses of oral insulin-like growth factor-I on jejunal lactase phlorizin hydrolase activity and gene expression and enterocyte proliferation and migration in piglets. *Pediatric Research* 48: 497-503.

48. 2000 Massé PG, Delvin EE, Hauschka PV, **Donovan SM**, Grynepas MD, Mahuren JD, Watkins BA, Howell DS. Perturbations in factors that modulate osteoblast phenotypic expression in vitamin B6 deficiency. *Canadian Journal of Physiology and Pharmacology* 78: 904-911.
- †49. 2001 **Donovan SM**, Monaco MH, Bleck GT, Cook JB, Noble MS, Hurley WL, Wheeler MB. Transgenic over-expression of bovine α -lactalbumin and human insulin-like growth factor-I in porcine mammary gland. *Journal of Dairy Science* 84 (E. Suppl.): E216-E222.
- †50. 2001 Wheeler MB, Bleck GT, **Donovan SM**. Alteration of sow milk to improve piglet growth and health. *Reproduction (supplement)* 58: 313-324.
51. 2001 Anthony TG, Anthony JC, Lewitt MS, **Donovan SM**, Layman DK. Time course changes in plasma concentrations and hepatic mRNA expression of IGFBP-1 following treadmill exercise and post-exercise food intake in rats. *American Journal of Physiology* 280: E650-E656.
52. 2001 Boileau TW-M, Clinton SK, Zaripheh S, Monaco MH, **Donovan SM**, Erdman JW Jr. Testosterone and diet restriction modulate hepatic lycopene isomer concentrations in male F344 rats. *Journal of Nutrition* 131: 1746-1752.
53. 2001 Burrin DG, Stoll B, Dudley MA, **Donovan SM**, Fan M, Reeds PJ. Oral IGF-I increases the efficiency of lactase processing in association with a suppression of intestinal proteolysis in neonatal pigs. *Journal of Nutrition* 131: 2235-2241.
54. 2001 Park YK, Dudley MA, Burrin DG, **Donovan SM**. Mucosal protein and LPH synthesis in parenterally-fed piglets receiving partial enteral nutrition and insulin-like growth factor-I. *Journal of Pediatric Gastroenterology and Nutrition* 33: 189-195.
55. 2002 Allen LH, Bentley ME, **Donovan SM**, Ney DM, Stover PJ. Securing the future of nutritional sciences through integrative graduate education. *Journal of Nutrition* 132: 779-784.
56. 2002 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 (GI and Liver Physiology)* 285: G1185-1196.
57. 2002 Deplancke B, Vidal O, Ganessunker D, **Donovan SM**, Mackie RI, Gaskins HR. Selective growth of mucolytic bacteria including *Clostridium perfringens* in a neonatal piglet model of total parenteral nutrition. *American Journal of Clinical Nutrition* 76: 1117-1125.
58. 2003 Massé PG, Boskey AL, Ziv I, Hauschka P, **Donovan SM**, Howell DS, Cole DE. Chemical and biomechanical characterization of hyperhomocysteinemic bone disease in a novel animal model. *MC Musculoskeletal Disorders* 4: 2 (on-line publication)
59. 2003 Whang KY, Kim SW, **Donovan SM**, McKeith FK, Easter RA. Effects of protein deprivation on subsequent growth performance, gain of body components and protein requirements of growth pigs. *Journal of Animal Science* 81: 705-716.
60. 2003 Correa-Matos NJ, **Donovan SM**, Isaccson 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* 133: 1845-1852.
61. 2004 Milo LA, 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* 39: 73-79.

62. 2004 Chen A-C, **Donovan SM**. Genistein at a concentration present in soy infant formula inhibits Caco2BBE cell proliferation by causing G2/M cell cycle arrest. *Journal of Nutrition* 134: 1301-1308.
- **Featured in: "Sour News for Soy Formula?" by Julia R. Barrett. Environmental Health Perspectives, May 2005, Vol 113: A302.**
- †63. 2005 Schook L, Beattie C, Beever J, **Donovan S**, Jamison R, Niemi S, Rothschild M, Rutherford M, Smith D, Zuckermann F. Swine in biomedical research: Creating the building blocks of animal models. *Animal Biotechnology* 16: 183-190
64. 2005 Chen A-C, Berhow MA, Tappenden KA, **Donovan SM**. Genistein inhibits intestinal cell proliferation in piglets. *Pediatric Research* 57:192-200.
- **Featured in: "Sour News for Soy Formula?" by Julia R. Barrett. Environmental Health Perspectives, May 2005, Vol 113: A302.**
65. 2005 Massé PG, Tranchant CC, Dossy J, **Donovan SM**. Coexistence of osteoporosis and cardiovascular disease risk factors in apparently healthy, untreated postmenopausal women. *International Journal of Vitamin and Nutrition Research* 75:97-106.
66. 2005 Massé PG, Dossy J, Jougleuz JL, **Donovan SM**, Caissie M, Howell DS. Bone metabolic imbalance occurs at an early stage of natural menopause *Journal Clinical Biochemistry and Nutrition* 37: 19-27.
67. 2005 Hartke JL, Monaco MH, Wheeler MB, **Donovan SM**. Effect of a short-term fast on intestinal disaccharidase activity and villus morphology of piglets suckling insulin-like growth factor-I (IGF-I) transgenic sows. *Journal of Animal Science* 83: 2404-2413.
68. 2005 Monaco MH, Gronlund DE, Bleck GT, Hurley WL, Wheeler MB, **Donovan SM**. Impact of mammary-specific over-expression of insulin-like growth factor-I on pig milk IGF-I and IGF binding proteins, milk composition and milk yield: *Transgenic Research* 14: 761-773
69. 2006 Guay F, **Donovan SM**, Trottier NL. Biochemical and morphological developments are impaired in intestinal mucosa from growing pigs fed reduced-protein diets supplemented with crystalline amino acids. *Journal of Animal Science* 84: 1749-1760.
70. 2006 Walker WA, **Donovan SM**. Preface for the 25th anniversary symposium of the Bristol-Myers Squibb/Mead Johnson Freedom to Discover Nutrition Research Grants and Awards Program. *Journal of Pediatrics* 149: (suppl 3): 47-48.
- †71. 2006 **Donovan SM**. Role of human milk components in gastrointestinal development: Current knowledge and future needs. *Journal of Pediatrics* 149: (suppl 3): 49-61.
72. 2007 Bernstein RM, Leigh SR, **Donovan SM**, Monaco MH. Hormones and body size evolution in papionin primates. *American Journal of Physical Anthropology* 132: 247-60.
73. 2007 Andres A, **Donovan SM**, Kuhlenschmidt TB, Kuhlenschmidt MS. Isoflavones at concentrations present in soy infant formula inhibit rotavirus infection *in vitro*. *Journal of Nutrition* 137: 2068-2073.
74. 2008 Bernstein RM, Leigh SR, **Donovan SM**, Monaco MH. Hormonal correlates of ontogeny in baboons (*Papio hamadryas anubis*) and mangabeys (*Cercocebus atys*). *American Journal of Physical Anthropology* 136:156-68.
- †75. 2009 Andres A, **Donovan SM**, Kuhlenschmidt MS. Isoflavones and viral infections. *Journal of Nutritional Biochemistry* 20: 563-569.

76. 2010 Moulton CJ, Valentine RJ, Layman DK, Devkota S, Singletary KW, Wallig MA, **Donovan SM**. A moderate protein reduced carbohydrate diet fed at discrete meals reduces early progression of N-methyl-N-nitrosourea-induced breast tumorigenesis in rats. *Nutrition & Metabolism* 7:1. doi:10.1186/1743-7075-7-1
- **Featured on Breast Cancer Network News on January 11, 2010**
77. 2010 Chapkin RS, Zhao C, Ivanov I, Davidson LA, Goldsby JS, Lupton JR, Mathai RA, Monaco MH, Rai D, Russell WM, **Donovan SM**, Dougherty ER. Stool-based detection of infant gastrointestinal development using gene expression profiles from exfoliated epithelial cells. *American Journal of Physiology Gastrointestinal and Liver Physiology* 298: G582-589.
- **Featured as a "Translational Highlight"**
 - **Highlighted in Petherick A. Mother's milk: A rich opportunity. Nature Outlook 2010; 468: S5-7.**
 - **Highlighted in Pediatrics for Parents, June 2011**
78. 2010 Tao N, Ochonicky KL, German JB, **Donovan SM**, Lebrilla CB. Structural determination and daily variations of porcine milk oligosaccharides. *Journal of Agricultural and Food Chemistry* 58: 4653-4659.
79. 2010 Poroyko V, White JR, Wang M, **Donovan SM**, Alverdy JC, Liu DC, Morowitz MJ. Gut microbial gene expression in milk-fed and formula-fed neonatal piglets. *PLoS ONE* 5(8): e12459.
80. 2010 Massé PG, Pacifique MB, Tranchant CC, Arjmandi BH, Ericson KL, **Donovan SM**, Delvin E, Caissie M. Bone Metabolic abnormalities associated with well-controlled Type 1 Diabetes (IDDM) in young adult women: A disease complication often ignored or neglected. *Journal of the American College of Nutrition* 29: 419-429.
81. 2011 Monaco MH, Kashtanov DO, Wang M, Walker DC, Rai D, Jouni ZE, Miller MJ, **Donovan SM**. The addition of polydextrose and galactooligosaccharide to formula does not affect bacterial translocation in the neonatal piglet. *Journal of Pediatric Gastroenterology and Nutrition* 52: 210–216.
82. 2011 Harrison K, Bost KK, McBride BA, **Donovan SM**, Grigsby-Toussaint DS, Kim J, Liechty JM, Wiley A, Teran-Garcia M, Jacobsohn, GC. Toward a developmental conceptualization of contributors to weight imbalance in childhood: The Six-C's model. *Child Development Perspectives* 5: 50-58.
- **Top paper award, Children, Adolescents, and Media division, annual meeting of the International Communication Association, Singapore, June 2010**

9. Conference Proceedings

- *1. 1986 **Donovan SM**, Atkinson SA, Lönnerdal B. Total nitrogen and non-protein nitrogen balance in preterm infants fed preterm human milk. **In:** Hamosh M and Goldman AS (editors), *Human Lactation 2: Maternal and Environmental Factors*. Plenum Publishing Corp., New York, NY, p. 603-610.
- *2. 1987 **Donovan SM**, Atkinson SA, Lönnerdal B. Whey proteins in feces of preterm infants receiving preterm milk and infant formula. **In:** Goldman AS, Atkinson SA and Hanson LA (editors), *Human Lactation 3: Effects of Human Milk on the Recipient Infant*. Plenum Publishing Corp., New York, NY, p. 377-378.
- §3. 1989 Lamson G, Pham H, Oh Y, Ocran I, DeLeon D, **Donovan S**, Schwander J, Rosenfeld RG. Expression of the 31 KD (hBP-31) and 30 KD (rBP-30) IGF binding proteins in human and rat tissues. **In:** Drop SLS, Hintz RL (editors), *Insulin-Like Growth Factor Binding Proteins*, Excerpta Medica, New York, NY, p. 143-148.
- *4. 1990 **Donovan SM**, Lönnerdal B, Atkinson SA. Bioavailability of ¹⁵N,¹⁵N-urea N for the low birthweight infant. **In:** Atkinson SA, Hanson LA, Chandra RK (editors), *Breastfeeding, Nutrition, Infection and Infant Growth in Developed and Emerging Countries*. ARTS Biomedical Publishers Inc, St Johns, Newfoundland, Canada, p. 473-476.
- §5. 1992 **Donovan SM**, Hintz RL, Rosenfeld RG. Sources of insulin-like growth factor-I and insulin-like growth factor binding proteins in rat milk. **In:** Picciano MF, Lönnerdal B (editors), *Contemporary Issues in Clinical Nutrition, Vol 15, Mechanisms Regulating Lactation and Infant Nutrient Utilization*, Wiley-Liss Inc, New York, NY, p. 377-382.

- †6. 1996 **Donovan SM**, Houle VM, Monaco MH, Schroeder EA, Park Y, Odle J. The neonatal piglet as a model to study insulin-like growth factor-mediated intestinal growth and function. **In:** Schook LB, Tumbleson M (editors), *Advances in Swine in Biomedical Research, Volume 2*. Plenum Publishing Corp., New York, NY, p. 733-743.
7. 2009 Adedze P, Orr R, **Donovan S**. The social ecological model as a framework for health and nutrition interventions in Rwanda. **In:** Kokoma I, Wagner R, (editors), (*in press*)
- †8. 2009 **Donovan SM**, Andres A, Mathai RA, Kuhlenschmidt TB, Kuhlenschmidt MS. Actions of soy formulas and soy isoflavones on the developing intestine. *Nutrition Reviews* 67 (Suppl. 2): S192-S200.

10. Technical Reports

1. 1998 Bleck GT, Monaco MH, Miller DJ, **Donovan SM**, Wheeler MB. *Transgenic alteration of sow milk to improve piglet growth and health*. Illinois Swine Report, Illinois Agricultural Experiment Station, 29-30.

11. Abstracts

a. National Conferences

American Academy of Pediatrics

1. 2010 Morowitz MJ, Poroyko V, White JR, Wang M, **Donovan S**, Alverdy J, Liu D. Commonly expressed bacterial genes in the newborn intestinal tract. American Academy of Pediatrics National Conference and Exposition.

American Association for Bone Mineral Research

1. 2009 Massé P, Maisha PB, Tranchant C, Arjmandi B, **Donovan S**, Delvin E, Caissie M, Ouellette R. Bone density and turnover of young adult women with type 1 diabetes (T1D) at risk of osteopenia (early stage of osteoporosis) prior to the onset of menopause. *Journal of Bone Mineral Research* 24 (Suppl 1): <http://www.asbmr.org/Meetings/AnnualMeeting/Abstracts09.aspx>
2. 2010 Massé PG, Tranchant CC, Pacifique MB, Ericson K, **Donovan SM**, Delvin E. Reduced bone density concomitant with metabolic abnormalities in type 1 diabetic patients. *Journal of Bone Mineral Research* 25: S2032.

American Association of Physical Anthropologists

1. 2003 Bernstein RM, Leigh SR, **Donovan SM**, Siegel M. Integration among hormonal parameters of growth in baboons: implications for patterns of maturation and reproduction. 72nd Annual Meeting of the American Association of Physical Anthropologists

American College of Surgeons

1. 2010 Morowitz M, Poroyko V, White JR, Wang M, Donovan S, Alverdy J, Liu D. Effects of age on Gut Bacterial communities in the newborn period.

American Dietetic Association

1. 1995 Kruse A, Hannum S, Alster J, Trupin S, Campbell E, **Donovan S**, Potter S. Changes in body composition during the postpartum period. *Journal of the American Dietetic Association* 95 (suppl): A92.

American Federation for Clinical Research

1. 1995 **Donovan SM**, Rhine WD, Benaron DA, Rosenfeld RG, Gonzalez-Mendez R, Stevenson DK. MRI and proximate analysis of body and organ growth of hypophysectomized and growth hormone treated rats. Western Society for Pediatric Research.

American Gastroenterological Association/Digestive Diseases Week

1. 1999 Ganessunker D, Gaskins HR, Zuckermann FA, **Donovan SM**. Partial enteral nutrition normalizes indices of intestinal inflammation in parenterally-fed neonatal piglets. *Gastroenterology* 116: A551.

2. 2000 Ganessunker D, Tappenden KA, **Donovan SM**. Early enteral nutrition differentially impacts intestinal structure and function in parenterally-fed neonatal piglets. *Gastroenterology* 118: A71.
3. 2002 Chen A-C, **Donovan SM**. Genistein mediates intestinal cell proliferation through the estrogen receptor. *Gastroenterology* 122: A372.
4. 2002 Gorski JM, Buetow KA, Correa-Matos N, 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* 122: A546.
5. 2004 Chen A-C, **Donovan SM**. Potential mechanisms underlying genistein-induced changes in intestinal cell dynamics in the neonatal piglet intestine. *Gastroenterology* 126: A521. **Selected as a Poster of Distinction (top 10% of submitted abstracts)**
6. 2004 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* 126: A516.
7. 2004 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* 126: A517.
8. 2007 Andres A, Taylor SA, Helregel BA, Kuhlenschmidt TB, Kuhlenschmidt MS, **Donovan, SM**. Gastrointestinal adaptive and innate immunological responses to rotavirus infection in the neonatal piglet. *Gastroenterology* 131: A715.
9. 2007 Commare CE, **Donovan, SM**, Gaskins HR, Holst JJ, Ramanujam KS, Tappenden KA. The effect of colostrum fractions on the structure and function of the developing intestine in neonatal piglets. *Gastroenterology* 131: A61.

American Institute for Cancer Research

1. 2001 Boileau TWM, Clinton SK, Liao Z, Monaco MH, **Donovan SM**, Erdman JW Jr. Lycopene, tomato poser and diet restriction influence survival of rats with NMU-testosterone induced prostate cancer. American Institute for Cancer Research Annual Meeting, Washington, DC. *Journal of Nutrition* 131:191S.

American Pediatric Society/Society for Pediatric Research

1. 1998 Ward WE, Paes B, **Donovan SM**, Atkinson SA. Nutrition, growth, bone metabolism and the ontogeny of the GH-IGF-I axis to term corrected age in very low birth weight (VLBW) infants treated with dexamethasone (DEX) in early life. *Pediatric Research* 43: 271A

American Society for Animal Sciences/American Dairy Science Association

1. 1998 Bleck GT, Monaco MH, **Donovan SM**, Wheeler MB. Production of transgenic pigs and mice encoding human insulin-like growth factor-I under control of the bovine α -lactalbumin promoter and regulatory regions. *Journal of Animal Science* 76 (Suppl. 1): 213.
2. 2000 **Donovan SM**, Monaco MH, Bleck GT, Cook JB, Noble M, Hurley WL, Wheeler MB. Transgenic over-expression of bovine α -lactalbumin and human IGF-I in porcine mammary gland: effects on lactation and piglet growth and development. *Journal of Dairy Science* 83 (Suppl. 1): 9.
3. 2003 **Donovan SM**, Hartke JL, Monaco MH, Wheeler MB. Over-expression of IGF-I effects on piglet intestinal growth. *Journal of Dairy Science* 86 (Suppl. 1): 134.

4. 2003 Hartke JL, Monaco MH, Wheeler MB, **Donovan SM**. Effect of a short-term fast on intestinal disaccharidase activity and villus morphology in piglets suckling insulin-like growth factor-I (IGF-I) transgenic sows. *Journal of Dairy Science* 86 (Suppl. 1): 134.
5. 2003 Hartke JL, Monaco MH, Wheeler MB, **Donovan SM**. Intestinal growth and development in piglets suckling insulin like growth factor-I (IGF-I) transgenic sows. *Journal of Dairy Science* 86 (Suppl. 1): 311.
6. 2003 Monaco MH, Hurley MB, Wheeler MB, **Donovan SM**. Insulin-like growth factor-I (IGF-I) modulates the process of mammary apoptosis after weaning in IGF-I transgenic pigs. *Journal of Dairy Science* 86 (Suppl. 1): 301.
7. 2003 Gronlund DE, Hurley WL, Monaco MH, Wheeler MB, **Donovan SM**. Over-expression of insulin-like growth factor-I in lactating porcine mammary tissue has a differential effect on amino acid transport systems. *Journal of Dairy Science* 86 (Suppl. 1): 190.
8. 2005 Gunness J, Monaco M, Lönnerdal B, **Donovan S**. Porcine milk proteins throughout lactation and isolation of lactoferrin and immunoglobulin. *Journal of Dairy Science* 88 (Suppl. 1): 143.
9. 2005 Hartke J, Monaco M, McCusker R, Wheeler M, **Donovan S**. Small intestinal IGF-I binding protein (IGFBP)-2 and -5 and IGF receptors in piglets suckling IGF-I transgenic sows. *Journal of Dairy Science* 88 (Suppl. 1): 282
10. 2005 Monaco M, Wheeler M, **Donovan S**. Transgenic over-expression of IGF-I modulates the synthesis and secretion of pig milk IGFBP-2 and -5 in the early and post-lactation periods. *Journal of Dairy Science* 88 (Suppl. 1): 282.
11. 2005 **Donovan S**, Taylor S, DePeters E. Fatty acid composition of porcine milk throughout lactation and comparison to human and bovine milk. *Journal of Dairy Science* 88 (Suppl. 1): 288.
12. 2005 **Donovan S**, Taylor S, DePeters E, Lönnerdal B. Mineral and trace element content of porcine milk throughout lactation and comparison to human and bovine milks. *Journal of Dairy Science* 88 (Suppl. 1): 289.
13. 2005 Ochonicky K, **Donovan S**, Kuhlenschmidt T, Kuhlenschmidt M. Inhibitory effects of human and porcine milk oligosaccharides on sialic acid dependent and sialic acid independent strains of rotavirus. *Journal of Dairy Science* 88 (Suppl. 1): 365.
14. 2005 Ochonicky K, **Donovan S**, Kuhlenschmidt T, Jimenez-Flores R, Kuhlenschmidt M. Inhibitory activity of bovine milk fat globule membrane against sialic acid-dependent and -independent strains of rotavirus. *Journal of Dairy Science* 88 (Suppl. 1): 365.

American Society for Bone Mineral Research

1. 1997 Massé PG, Delvin EE, Hauschka P, **Donovan SM**, Pritzker KPH. Anti-vitamin D-like effect of cortisol induced by pyridoxine deficiency (PND). *Journal of Bone Mineral Research* 12: S455.
2. 2003 Massé PG, Dossy J, Holloway L, **Donovan SM**. Calcitropic hormones, IGF-1, bone density and turnover in early natural menopause. *Journal of Bone Mineral Research* 18:S354.
3. 2004 Massé PG, Jougoux JL, Dossy J, **Donovan SM**. Early screening and characterization of osteopenia in middle-aged women. *Journal of Bone Mineral Research* 19; S:204.

American Society for Clinical Nutrition

1. 1986 **Donovan SM**, Atkinson SA, Lönnerdal B. Nitrogen and non-protein nitrogen balance in preterm infants fed preterm human milk and infant formula. *American Journal of Clinical Nutrition* 43: A20.

American Society for Microbiology

1. 2011 Poroyko VA, Morowitz MJ, Bell T, Ulanov A, **Donovan S**, Alverdy J, Bergelson J, Liu DD. Type of diet explains gut microbiota dynamics in neonatal piglets. 5th Annual Academic Surgical Congress, New Orleans, LA.

American Society for Parenteral and Enteral Nutrition

1. 2001 Milo LA, Correa-Matos NJ, Bartholome AL, **Donovan SM**, Isaacson RE, Tappenden KA. Supplementation of enteral formulas with fermentable substrates enhance migratory capability of intraepithelial lymphocytes and neutrophils during *Salmonella* infection in neonatal piglets. *Journal of Parenteral and Enteral Nutrition* 25:S10-11.

Annual Academic Surgical Congress

1. 2010 Morowitz MJ, Poroyko V, White JR, **Donovan S**, Ulanov A, Alverdy J, Liu D. High throughput functional profiling of intestinal bacteria in milk-fed and formula-fed newborn humans and piglets. 5th Annual Academic Surgical Congress, San Antonio, TX, February 3-5, 2010.

Endocrine Society

1. 1990 **Donovan SM**, Atilano L, Lamson G, Wilson DM. Effects of neonatal malnutrition on serum insulin-like growth factors-I and -II and IGF binding protein expression and mRNA in the rat. Proceedings of the 72nd Annual Meeting of The Endocrine Society, p 307.
2. 1991 **Donovan SM**, de las Fuentes L. Ontogeny and tissue distribution of insulin-like growth factor binding protein (IGFBP) -1, -2, -3, and -4 mRNA expression in the rat. Proceedings of the 73rd Annual Meeting of The Endocrine Society, p. 144.
3. 1991 Ceda GP, **Donovan S**, Swerdloff J, Vu T, Hoffman AR. Regulation of IGFBP expression by thyroid hormone in rat GH3 pituitary tumor cells. Proceedings of the 73rd Annual Meeting of The Endocrine Society, p. 89.
4. 1992 **Donovan SM**, Monaco M, Zhao X. Hormonal treatment during recovery from malnutrition: effects on body weight, organ growth, and IGF binding proteins. Proceedings of the 74th Annual Meeting of The Endocrine Society, p. 340.
5. 1993 **Donovan SM**, Zhao X, Jiménez-Flores R. Separation of rat serum IGF binding proteins (IGFBPs) by isoelectric focusing. Proceedings of the 75th Annual Meeting of The Endocrine Society, p. 420.
6. 1994 Zhao X, **Donovan SM**. Combined GH and IGF-I treatment normalizes growth recovery following neonatal malnutrition. Proceedings of the 76th Annual Meeting of The Endocrine Society, p. 1400.
7. 1995 Houle VM, Schroeder EA, Park Y, Odle J, **Donovan SM**. Orally administered insulin-like growth factor-I stimulates neonatal piglet intestinal development. Proceedings of the 77th Annual Meeting of The Endocrine Society, p. 518.
8. 1997 Gautsch TA, Anthony JA, Lewitt MS, **Donovan SM**, Layman DK. Exercise training abrogates serum levels of IGFBP-1 following prolonged exercise in male rats. Proceedings of the 79th Annual Meeting of The Endocrine Society, p. 344.

FASEB/Experimental Biology

1. 1985 **Donovan SM**, Lönnerdal B. Non-protein nitrogen constituents in mature human milk and colostrum. *Federation Proceedings* 44: 1676.
2. 1986 **Donovan SM**, Dewey KG, Lönnerdal B. Postprandial changes in the non-protein nitrogen content and composition of mature human milk. *Federation Proceedings* 45: 816.

3. 1986 Finley DA, **Donovan SM**, Lönnerdal B. Factors affecting levels of taurine and free amino acids in human milk. *Federation Proceedings* 45: 817.
4. 1987 **Donovan SM**, Lönnerdal B. Non-protein nitrogen in human milk: Isolation and characterization of peptides and low-molecular-weight compounds. *Federation Proceedings* 46: 570.
5. 1987 Davidson LA, Lönnerdal B, **Donovan SM**, Atkinson SA. Quantitation of α -1-antitrypsin in feces of term and preterm infants receiving human milk. *Federation Proceedings* 46: 894.
6. 1988 Lönnerdal B, **Donovan SM**. Development of a human milk protein standard. *Federation Proceedings* 47: 651.
7. 1988 **Donovan SM**, Kunz C, Rudloff S, Lönnerdal B. Characterization of soluble and insoluble proteins in human milk, cow milk, goat milk and infant formulas. *Federation Proceedings* 47: 651.
8. 1990 **Donovan SM**, Wilson DM, Rosenfeld RG. Insulin-like growth factors and their binding proteins in rat milk. *The FASEB Journal* 4: A419.
9. 1991 **Donovan SM**, Hintz RL, Rosenfeld RG. Effect of heat treatment on insulin-like growth factors and their binding proteins in human milk. *The FASEB Journal* 5: A1329.
10. 1992 Monaco M, Zhao X, **Donovan SM**. Effect of food restriction during pregnancy on serum insulin-like growth factors and IGF-binding proteins. *The FASEB Journal* 6: A1961.
11. 1992 **Donovan SM**, Rosenfeld RG, Park T, Reisenauer A, Castillo RO. Effect of neonatal malnutrition and growth hormone treatment on intestinal development. *The FASEB Journal* 6: A1379.
12. 1993 Monaco M, **Donovan SM**. Insulin-like growth factor binding proteins (IGFBPs) in food restricted lactating rats. *The FASEB Journal* 7: A823.
13. 1993 Zhao X, **Donovan SM**. GH and IGF-I treatment during recovery from malnutrition. *The FASEB Journal* 7: A361.
14. 1993 **Donovan SM**, McNeil LK, Odle J, Jiménez-Flores R. Pig serum and milk insulin-like growth factor binding proteins (IGFBPs) throughout lactation. *The FASEB Journal* 7: A643.
15. 1993 Clegg MS, **Donovan SM**, Keen CL. Zinc deficiency and IGFBP metabolism in the rat *The FASEB Journal* 7: A736.
16. 1994 Chao JC-J, **Donovan SM**. Insulin-like growth factor-I (IGF-I) stimulates thymidine incorporation into a human fetal small intestinal cell line (FHS 74 Int). *The FASEB Journal* 8: A175.
17. 1994 Clegg MS, **Donovan SM**, Golub MS, Gershwin ME, Keen CL. Primates consuming marginal zinc diets have altered serum insulin-like growth factor binding protein (IGFBP) profiles. *The FASEB Journal* 8: A716.
18. 1994 Larson M, **Donovan SM**, Potter SM. Dietary protein source during neonatal development affects lipid metabolism. *The FASEB Journal* 8: A163.
19. 1994 Monaco MH, Gaskins HR, **Donovan SM**. Lactating rat serum and milk insulin concentrations. *The FASEB Journal* 8: A174.
20. 1994 Mies AM, Zijlstra R, McCracken BW, Gaskins HR, Odle J, Lien EL, **Donovan SM**. Acute metabolic responses of piglets to infant formulas containing intact or hydrolyzed soy proteins: I. hormones and metabolites. *The FASEB Journal* 8: A459.

21. 1994 Smith A, Hannum S, Essex-Sorlie D, Trupin S, Campbell E, **Donovan SM**, Potter SM. Changes in body composition during the postpartum period. *The FASEB Journal* 8: A457.
22. 1994 Zhao X, **Donovan SM**. Growth hormone (GH) and insulin-like growth factor-I (IGF-I) enhance recovery from neonatal malnutrition. *The FASEB Journal* 8: A424.
23. 1994 Zijlstra RT, Mies AM, **Donovan SM**, Gaskins HR, Lien EL, Odle J. Acute metabolic responses of piglets to infant formulas containing intact or hydrolyzed soy proteins: II. amino acids. *The FASEB Journal* 8: A460.
24. 1995 Houle VM, Schroeder EA, Park Y, Odle J, **Donovan SM**. Orally administered insulin-like growth factor-I stimulates neonatal piglet intestinal development. *The FASEB Journal* 9: A580.
25. 1995 **Donovan SM**, Chao JC-J, Zijlstra RT, Odle J. Absorption of orally administered iodinated insulin-like growth factor-I (IGF-I) by the neonatal piglet. *The FASEB Journal* 9: A730.
26. 1995 Monaco MH, **Donovan SM**. IGF-I infusion increases in vivo tissue [$1-^{14}C$] AIB accumulation in food-restricted lactating rats. *The FASEB Journal* 9: A760.
27. 1995 Zhao X, Layman DK, **Donovan SM**. Differential effects of growth hormone and insulin-like growth factor-I on protein metabolism during recovery from malnutrition. *The FASEB Journal* 9: A756.
28. 1995 Gautsch TA, Kandl SM, **Donovan SM**, Layman DK. Growth hormone stimulates early growth recovery after prolonged food restriction. I: Changes in muscle and somatic growth. *The FASEB Journal* 9: A756.
29. 1995 Kandl SM, Gautsch TA, **Donovan SM**, Layman DK. Growth hormone stimulates early growth recovery after prolonged food restriction. II: Changes in insulin-like growth factor-I (IGF-I). *The FASEB Journal* 9: A756.
30. 1995 Larson M, **Donovan SM**, Potter SM. Infant formula proteins affect blood lipids in neonates. *The FASEB Journal* 9: A768.
31. 1996 Zijlstra RT, McCracken BA, Gaskins HR, **Donovan SM**, Gelberg HB, Odle J, Petschow BW. Protein-energy malnutrition (PEM) delays recovery in neonatal pigs infected with rotavirus. *The FASEB Journal* 10: A500.
32. 1996 Houle VM, Schroeder EA, Laswell SC, **Donovan SM**. Small intestinal disaccharidase activities are up-regulated whereas peptidase activity is decreased by orally administered insulin-like growth factor-I in the neonatal piglet. *The FASEB Journal* 10: A728.
33. 1996 Schroeder EA, **Donovan SM**. Oral insulin-like growth factor-I (IGF-I) does not alter organ growth or tissue IGF binding protein (IGFBP) expression in the neonatal piglet. *The FASEB Journal* 10: A227.
34. 1996 Monaco MH, **Donovan SM**. Small intestinal type I and type II insulin-like growth factor receptor expression in piglets fed formula supplemented with insulin-like growth factor-I (IGF-I). *The FASEB Journal* 10: A728.
35. 1996 Park YK, Monaco MH, **Donovan SM**. Effect of oral formula \pm IGF-I on intestinal growth and enzyme activity of piglets on total parenteral nutrition (TPN). *The FASEB Journal* 10: A227.
36. 1996 Ward WE, **Donovan SM**, Veenhuizen JJ, Atkinson SA. Treatment with growth hormone (GH) alone or combined with insulin-like growth factor-I (IGF-I) attenuates dexamethasone (DEX)-induced delays in growth and bone metabolism in piglets. *The FASEB Journal* 10: A468.
37. 1996 Gautsch TA, Kandl SM, Crabtree SL, **Donovan SM**, Layman DK. Exercise stimulates hepatic insulin-like growth factor binding protein-1 (IGFBP-1) mRNA expression in rats. *The FASEB Journal* 10: A206.

38. 1996 Clegg MS, **Donovan SM**, Monaco MH, Baly DL, Ensunsa JL, Keen CL. Manganese deficiency effects circulating growth hormone (GH), IGF-I and IGF-BPs in the male rat. *The FASEB Journal* 10: A786.
39. 1996 McCracken BA, Zijlstra RT, **Donovan SM**, Odle J, Lien EL, Gaskins HR. Growth and intestinal histomorphology of piglets fed infant formulas containing intact or hydrolyzed soy proteins. *The FASEB Journal* 10: A749.
40. 1997 Houle VM, Dudley MA, **Donovan SM**. Mechanisms of oral IGF-I induced intestinal growth and lactase specific activity in the neonatal piglet. *The FASEB Journal* 11: A145.
41. 1997 Park YK, Monaco MH, **Donovan SM**. Oral insulin-like growth factor-I (IGF-I) enhances the effect of limited enteral feeding on intestinal development of piglets on total parenteral nutrition (TPN). *The FASEB Journal* 11: A401.
42. 1997 Monaco MH, **Donovan SM**. Intestinal IGF binding protein profiles in piglets fed formula containing IGF-I. *The FASEB Journal* 11: A144.
43. 1998 Ward WE, **Donovan SM**, Atkinson SA. Improvements in growth and bone status with adjunctive growth hormone (GH) during dexamethasone (DEX) therapy in piglets are dose-dependent. *The FASEB Journal* 12: A508.
44. 1998 Ganessunker D, Gaskins HR, **Donovan SM**, Zuckermann FA. Total parenteral nutrition (TPN) alters intestinal immune cell development in neonatal piglets. *The FASEB Journal* 12: A556.
45. 1998 Park YK, **Donovan SM**. Effects of limited enteral nutrition (LEN) and oral IGF-I on mucosal growth of piglets on total parenteral nutrition (TPN). *The FASEB Journal* 12: A556.
46. 1998 Burrin D, Stoll B, Dudley M, Reeds P, **Donovan SM**, Fan M. Small intestinal growth and lactase synthesis in neonatal piglets fed formula supplemented with IGF-I. *The FASEB Journal* 12: A556.
47. 1998 Monaco MH Burrin DG, Stoll B, **Donovan SM**. Oral IGF-I reduces intestinal IGF receptor binding and low molecular weight IGF binding proteins in piglets. *The FASEB Journal* 12: A556.
48. 2000 Ganessunker D, Gaskins HR, Zuckermann FA, **Donovan SM**. Intestinal immune cell composition is rapidly altered in neonatal piglets on total parenteral nutrition (TPN). *The FASEB Journal* 14: A796.
49. 2000 Park YK, Dudley MA, Burrin DG, **Donovan SM**. Insulin-like growth factor-I (IGF-I) combined with partial enteral nutrition (PEN) increases synthesis of mucosal protein, but not lactase in parenterally-fed piglets. *The FASEB Journal* 14: A211.
50. 2000 Chen A-C, **Donovan SM**. Impact of insulin-like growth factor-I (IGF-I) on proliferation and lactase activity in CaCo2BBE cells. *The FASEB Journal* 14: A362.
51. 2000 Monaco MH, Bleck GT, Cook JB, Wheeler MB, **Donovan SM**. Transgenic overexpression of insulin-like growth factor-I in milk of swine using the bovine α -lactalbumin promoter and regulatory proteins. *The FASEB Journal* 14: A507.
52. 2000 Monaco MH, Chen A-C, Correa N, Ganessunker D, Gaskins HR, Lynch JK, McCarthy MC, Pelletier SE, **Donovan SM**. Effect of oral insulin-like growth factor-I (IGF-I) during the suckling period on intestinal structure and immune cell composition during weaning in pigs. *The FASEB Journal* 14: A506.
53. 2000 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* 14: A211.

54. 2001 Chen A-C, **Donovan SM**. IGF-I does not rescue CaCo2BBe cells from camptothecin-induced apoptosis. *The FASEB Journal* 15: A828.
55. 2001 Correa N, **Donovan SM**, Isaccson R, Gaskins HR, White BA, Tappenden KA. Fermentable substrate reduces recovery time and improves intestinal function in piglets following Salmonella infection *The FASEB Journal* 15: A642.
56. 2001 Monaco MH, Cook JB, Tappenden KA, Wheeler MB, **Donovan SM**. Intestinal lactase activity is increased in piglets suckling IGF-I transgenic sows. *The FASEB Journal* 15: A644
57. 2001 Conour JE, Ganessunker D, **Donovan SM**, Gaskins HR. Total parenteral nutrition induces sulfomucin goblet cell metaplasia in the small intestine of a neonatal piglet model. *The FASEB Journal* 15: A260.
58. 2002 Rudloff S, Henkel C, Pohlentz G, Wheeler MB, Monaco MH, **Donovan SM**, Kunz C. Total oligosaccharide and sialyl-lactose content are elevated in the colostrum of α -lactalbumin transgenic pigs. *The FASEB Journal* 16: A265.
59. 2002 Chen A-C, **Donovan SM**. Genistein at a concentration present in soy infant formula inhibits intestinal cell proliferation by causing G2/M cell cycle arrest. *The FASEB Journal* 16: A281.
60. 2003 Chen A-C, Berhow MA, Tappenden KA, **Donovan SM**. Genistein at a concentration present in soy infant formula inhibits intestinal cell proliferation in piglets. *The FASEB Journal* 17: A307.
61. 2005 Andres A, **Donovan SM**, Kuhlenschmidt TB, Kuhlenschmidt MS. Isoflavones at concentrations present in soy-based infant formula inhibit rotavirus infectivity *in vitro*. *FASEB J* 19: A446.
62. 2007 Hartke JL, Drnevich JM, Wheeler MB, Donovan SM. Transgenic over-expression of insulin-like growth factor-I (IGF-I) in milk influences intestinal development and gene expression in piglets. *The FASEB Journal* 21: A1077.
63. 2008 Mathai RA, Andres A, Helregel BA, Kuhlenschmidt TB, Kuhlenschmidt MS, **Donovan, SM**. Gastrointestinal structural and functional responses to rotavirus infection in the neonatal piglet. *The FASEB Journal* 22: 896.6.
64. 2008 Adedze P, Witz K, Orr R, **Donovan SM**. Assessing needs for nutrition education to prevent childhood overweight: Focus group discussions with Head Start parents. *The FASEB Journal* 22: 681.1.
65. 2008 Schantz BB, Ciamfranca M, Cooke PS, **Donovan SM**. Developmental ontogeny of adipose cellularity and gene expression in the neonatal piglet. *The FASEB Journal* 22: 1114.1.
66. 2009 Wang M, Radlowksi EC, Monaco MH, Fahey GC, Gaskins HR, **Donovan SM**. Intestinal microbiota of sow-reared piglets is unaffected by route of delivery. *The FASEB Journal* 23: 903.2.
67. 2009 Chen L, Wang M, Monaco MH, **Donovan SM**, Miller MJ. Impacts of piglet age and route of delivery on ileal *Lactobacillus* diversity *The FASEB Journal* 23: 903.1
68. 2009 Radlowski EC, Wang M, Monaco MH, Nehrling E, Tappenden KA, **Donovan SM**. Mode of delivery and early nutrition differentially impact intestinal development of the neonatal piglet. *The FASEB Journal* 23: LB486.
69. 2009 Schantz BB, Cooke PS, **Donovan SM**. Isoflavone concentration of soy infant formula influences adipose gene expression in the neonatal piglet. *The FASEB Journal* 23: LB438.
70. 2009 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. *The FASEB Journal* 23: LB436.

71. 2009 Monaco MH, Kashtanov DO, Rai D, Walker DC, Jouni ZE, Miller MJ, **Donovan SM**. The addition of polydextrose and galactooligosaccharide to formula does not affect barrier function or bacterial translocation in neonatal piglets. *The FASEB Journal* 23: LB479.
72. 2009 Wang M, Radlowski EC, Monaco MH, Chen L, Miller MJ, Fahey GC, Gaskins HR, **Donovan SM**. Mode of delivery and early nutrition modulate microbial colonization and fermentation products in the neonatal piglet. *The FASEB Journal* 23: LB497.
73. 2009 Massé PG, Elisha B, Tranchant CC, Ericson K, **Donovan S**, Ouellette R. Risks of nutritional deficiencies in young adult type I diabetic women. *The FASEB Journal* 23: 930.1.
74. 2010 Hester SN, Cope SC, Comstock SS, Monaco MH, **Donovan SM**. Effect of dietary yeast β -glucan on immune development in neonatal piglets. *The FASEB Journal* 24: 925.5.
75. 2010 Cope SC, Hester SN, Comstock SS, Monaco MH, **Donovan SM**. Dietary yeast β -glucan does not improve the response to influenza vaccination in neonatal piglets. *The FASEB Journal* 24: 332.6.
77. 2010 **Donovan SM**, Davidson LA, Zhao C, Ivanov I, Goldsby JS, Lupton JR, Mathai RA, Monaco MH, Rai D, Russell M, Dougherty ER, Chapkin RS. Non-invasive stool-based detection of newborn infant gastrointestinal development using gene expression profiles derived from exfoliated epithelial cells. *The FASEB Journal* 24:206.6
78. 2010 Radlowski EC, Wang M, Monaco MH, **Donovan SM**. Early nutrition affects intestinal CD3+ T-cell localization in the neonatal piglet. *The FASEB Journal* 24: LB352..
79. 2010 Bares AL, Radlowski EC, Monaco MH, Comstock SS, **Donovan SM**. Intestinal expression of osteopontin and genes in the Wnt and bone morphogenic pathways differ between sow-reared and formula-fed piglets with no effect of prebiotic supplementation.. *The FASEB Journal* 24: LB355.
80. 2011 Li M, Bauer LL, Chen X, Kuhlenschmidt T, Kuhlenschmidt MS, Fahey Jr GC, **Donovan SM**. *In vitro* fermentation of human milk oligosaccharides by ascending colonic microbiota from formula-fed and sow-reared piglets. *The FASEB Journal* 25: 985.3.
81. 2011 Chen X, Li M, Kuhlenschmidt T, Kuhlenschmidt MS, **Donovan SM**. Effect of human milk oligosaccharides on rotavirus infectivity in MA104 cells. *The FASEB Journal* 25: 584.18
82. 2011 Li Y, Kuhlenschmidt TB, Kuhlenschmidt MS, **Donovan SM**. Isoflavones reduce rotavirus infectivity in MA104 cells through inhibition of protein kinases in the JNK and p70 signaling pathways. *The FASEB Journal* 25: 772.12.
83. 2011 Comstock SS, Wang M, Hester SN, Li M, **Donovan SM**. *In vivo* stimulation of neonatal porcine peripheral blood mononuclear cells with oligosaccharides found in human milk. *The FASEB Journal* 25: lb215.
84. 2011 Lu J, Shunk JM, Comstock SS, Monaco HM, **Donovan SM**. Detection of rotavirus specific immunoglobulins in the serum of neonatal piglets with or without colostrum feeding. *The FASEB Journal* 25: lb224.
85. 2011 Reznikov EA, Comstock SS, **Donovan SM**. Novel use of confocal microscopy in conjunction with EdU technology to determine *in vivo* cellular proliferation in the piglet intestine. *The FASEB Journal* 25: lb204.

Microbiota and mucosal immunology: The interface in health and disease

1. 2011 Schwartz SL, Friedberg I, Ivanov IV, Davidson LA, Goldsby JS, Dahl DB, Dougherty ER, Herman D, Wang M, **Donovan SM**, Chapkin RS. Breastmilk and infant formula: prediction, correlation and classification within the joint-host gut transcriptome and microbiota. *Nature Immunology* xx: *in press*

Society for Nutrition Education

1. 1995 Mangione LM, **Donovan SM**. Effectiveness of a breastfeeding program developed for use in high school classrooms. *Journal of Nutrition Education* 27 (Suppl 4): S107.
2. 2006 Adedze P, Chapman-Novakofski K, Witz K, Orr R, **Donovan SM**. Knowledge, attitudes and beliefs about nutrition and childhood overweight among WIC participants. *Journal of Nutrition Education and Behavior* 38 (Suppl 4): S61.
3. 2007 Adedze P, Witz K, Orr R, **Donovan SM**. Evaluation of the Healthy Moves for Healthy Children program: Focus groups with Head Start teachers. *Journal of Nutrition Education and Behavior* 39 (Suppl 4): S117.
4. 2010 Mayeaux M, Moskowitz H, **Donovan SM**, Lee S-Y. Defining perceptions of picky water children by conjoint analysis. *Journal of Nutrition Education and Behavior* 39 (Suppl 4): S77.
5. 2011 MacInnes AK, Bouquin MM, Smith-Simpson S, **Donovan SM**, Lee S-Y. Relationship of food availability in the home and prevalence of picky eating. *Journal of Nutrition Education and Behavior* 40 (Suppl 4): in press.

Society for The Study of Ingestive Behavior

1. 2011 **Donovan SM**, Schwartz SL, Ivanov IV, Davidson LA, Goldsby JS, Dahl DB, Dougherty ER, Friedberg I, Herman D, Wang M, Chapkin RS. Host-microbe interactions in the neonatal intestinal development. Role of Early Nutrition. *Appetite* 57S: S13.

The Oxygen Society

1. 2000 Boileau T, Clinton S, Liao Z, Monaco M, **Donovan S**, Erdman J, Jr. Phytochemicals in tomatoes increase survival or rats with NMU-testosterone-induced prostate cancer. *Free Radical Biology and Medicine* 29 (supplement 1): S29.

b. International Conferences

Canadian Federation of Biological Sciences

1. 1996 Ward WE, **Donovan SM**, Veenhuizen JJ, Atkinson SA. Bone but not lean or fat mass in improved during dexamethasone treatment with adjunctive growth hormone or combined growth hormone+insulin-like growth factor-I therapy in piglets. *Canadian Federation of Biological Sciences*, A157.

Canadian Orthopaedic Research Society

1. 1998 Massé P, Delvin EE, Hauschka P, Howell DS, **Donovan SM**. An animal model for glucocorticoid-induced osteoporosis in humans. *The Canadian Orthopaedic Research Society*, Ottawa, Ontario, Canada, June 1998.

European Society for Pediatric Gastroenterology, Hepatology and Nutrition

1. 2011 **Donovan SM**, Monaco MH, Drnevich JM, Hernell O, Sørensen, ES, Kvistgaard AS, Lønnerdal B. Transcriptional responses of the neonatal Rhesus intestine to osteopontin. *Journal of Pediatric Gastroenterology and Nutrition* 52 (Suppl 2): E62. (Sorrento, Italy, May 25-28, 2011)
 - **Selected as a Poster of Distinction**

Intelligent Systems in Molecular Biology (Vienna, Austria)

1. 2011 Schwartz SL, Friedberg I, Ivanov IV, Davidson LA, Goldsby JS, Dahl DB, Dougherty ER, Herman D, Wang M, **Donovan SM**, Chapkin RS. The human gut ecosystem: Gut microbiome and host transcriptome in breast-fed vs. formula-fed infants.

International Communication Association

1. 2010 Harrison K, Bost KK, McBride B, **Donovan SM**, Grigsby-Toussaint DS, Kim J, Liechty JM, Wiley AR, Teran-Garcia MD, Costa-Jacobson W. Toward a developmental conceptualization of media and other contributors to child obesity: The six-Cs model. International Communication Association "Matters of Communication: Political, Cultural and Technological Challenges", Singapore, June 22-26, 2010.
 - **Top paper award, Children, Adolescents, and Media division, annual meeting of the International Communication Association, Singapore, June 2010**

International Embryo Transfer Society

1. 2002 Monaco M, Cook JB, **Donovan SM**, Wheeler MB. Development of swine transgenic for bovine α -lactalbumin and human insulin-like growth factor-I: milk composition, milk production and piglet growth. *Theriogenology* 57: 784.

International Society for Research on Human Milk and Lactation

1. 1986 **Donovan SM**, Atkinson SA, Lönnerdal B. Nitrogen and NPN balance in breastfed preterm infants. *Second International Conference on Lactation*, Oaxaca, Mexico. January 1986.
2. 1986 **Donovan SM**, Atkinson SA, Lönnerdal B. Whey proteins found in the feces of preterm infants receiving human milk and infant formulas. *Third International Conference on Lactation*, Konstanz, FRG, September 1986.
3. 1988 **Donovan SM**, Lönnerdal B, Atkinson SA. Utilization of ^{15}N , ^{15}N -urea by the premature infant. *Fourth International Conference on Lactation*, San José, Costa Rica, November 1988.
4. 1990 **Donovan SM**, Rosenfeld RG. Sources of insulin-like growth factors and their binding proteins in rat milk. *Fifth International Conference on Lactation*, Asilomar, California, November 1990.
5. 1992 **Donovan SM**, Monaco M, Zhao X. Hormonal treatment during recovery from neonatal malnutrition: effects on body weight, body composition, and organ growth. *Conference on Nutrient Regulation during Pregnancy, Lactation and Infant Growth*. Stockholm, Sweden, August 1992.
6. 1992 Monaco M, **Donovan SM**. Effect of food restriction during pregnancy and lactation on serum insulin-like growth factors and IGF-binding proteins. *Conference on Nutrient Regulation during Pregnancy, Lactation and Infant Growth*. Stockholm, Sweden, August 1992.
7. 1995 **Donovan SM**, Houle VM, Odle J. Oral administration of formula containing insulin-like growth factor-I (IGF-I) to neonatal piglets: Absorption and intestinal responses. *International Conference of the Society for Research in Human Milk and Lactation*. Tlaxcala, Mexico, July 1995.
8. 2000 Monaco MH, Bleck GT, Cook JB, Wheeler MB, **Donovan SM**. Mammary-specific over-expression of IGF-I in transgenic swine increases milk IGF-I and IGF binding protein-2 and -5. *International Conference of the Society for Research in Human Milk and Lactation*. Tucson, Arizona, September, 2000.
9. 2007 **Donovan SM**. Effect of milk components on intestinal gene expression in the piglet model. *Breast Milk: Physiology, Biochemistry and Outcomes. The 2006 Meeting of the International Society for Research in Human Milk and Lactation*. Niagara-on-the Lake, Ontario, Canada, September, 2006. *Journal of Human Lactation* 2007 23: 72 (A20)
10. 2007 Hartke JL, Drnevich JM, Wheeler MB, **Donovan SM**. Transgenic overexpression of insulin-like growth factor-I (IGF-I) in milk influences intestinal development and gene expression in piglets. *Breast Milk: Physiology, Biochemistry and Outcomes. The 2006 Meeting of the International Society for Research in*

Human Milk and Lactation. Niagara-on-the Lake, Ontario, Canada, September, 2006. *Journal of Human Lactation* 2007 23: 72 (A34)

11. 2006 Monaco MH, Drnevich JM, Ramanujam KS, **Donovan SM**. Impact of route of nutrient administration and colostum on the intestinal epithelial transcriptome. *Breast Milk: Physiology, Biochemistry and Outcomes. The 2006 Meeting of the International Society for Research in Human Milk and Lactation*. Niagara-on-the Lake, Ontario, Canada, September, 2006. *Journal of Human Lactation* 2007 23: 72 (A67)
12. 2008 **Donovan SM**, Ochonicky KL, Kuhlenschmidt TB, Kuhlenschmidt MS. (2008) Inhibitory actions of human and porcine milk oligosaccharides against sialic acid-dependent and -independent rotavirus. *14th Int'l Conference of the Society for Research on Human Milk and Lactation*, Perth Australia, January 2008.
13. 2010 **Donovan SM**, Davidson LA, Zhao C, Ivanov I, Goldsby JS, Lupton JR, Mathai RA, Monaco MH, Rai D, Russell WM, Dougherty ER, Chapkin RS. Non-invasive assessment of the intestinal transcriptome identifies genes involved in mucosal immune development. *15th Int'l Conference of the Society for Research on Human Milk and Lactation*, Lima, Peru, October 2010.

International Symposium on Digestive Physiology of Pigs

1. 2003 Guay F, Ochonicky KM, **Donovan, SM**, Trottier NL. Biochemical and morphometric changes in small intestine of growing pigs fed reduced-protein diets supplemented with synthetic amino acids. 9th International Symposium on Digestive Physiology of Pigs Banff, Alberta, Canada, May 2003

International Symposia on Insulin-like Growth Factors/Somatomedins

1. 1991 **Donovan SM**, Lamson G, Hintz RL, Rosenfeld RG. Hepatic IGFBP mRNA expression during pregnancy in the rat. *Second International Symposium on Insulin-like Growth Factors/Somatomedins*, San Francisco, California, January 1991.
2. 1991 Rosenfeld RG, Oh Y, Beukers MW, Pham H, Cohen P, Deal C, Fielder P, **Donovan S**, Neely EK, Giudice LC, Ling N, Lamson G. Insulin-like growth factor receptor physiology. *Second International Symposium on Insulin-like Growth Factors/Somatomedins*, San Francisco, California, January 1991.

International Symposium on Microbial Ecology

1. 1998 Kocherginskaya SA, McCracken VJ, Gannesunker D, **Donovan SM**, Aminov RI, White BA, Gaskins HR. DGGE analysis of the intestinal microbiota from enteral and TPN-fed neonatal piglets. *8th International Symposium on Microbial Ecology*, Halifax, Nova Scotia, August 1998.
2. 2001 Deplancke B, Vidal O, Gannesunker D, **Donovan SM**, Mackie RI, Gaskins HR. Molecular analysis of mucolytic bacteria and their activity in a total parenteral nutrition (TPN) piglet model. 9th International Symposium on Microbial Ecology, Amsterdam, The Netherlands, August 2001.

International Symposium on PUFA in Maternal and Child Health

1. 2001 McCarthy MC, Beaulieu AD, Drackley JK, Tappenden KA, **Donovan SM**. Dietary long chain polyunsaturated fatty acids alter intestinal fatty acid profiles, but do not impact digestive function in neonatal piglets. *Lipids* 36; 1068.

International Symposium on the Role of Soy in Preventing and Treating Chronic Diseases

1. 2005 Andres A, **Donovan SM**, Kuhlenschmidt TB, Kuhlenschmidt MS. Genistin at the concentration present in soy-based infant formula inhibits rotavirus infectivity *in vitro* through inhibition of tyrosine kinase activity, November 2005.

International Symposium on Swine in Biomedical Research

1. 1995 **Donovan SM**, Schroeder EA, Houle VM, Odle J. The neonatal piglet as a model to study insulin-like growth factor mediated intestinal growth and function. *International Symposium on Swine in Biomedical Research*, College Park, Maryland, October 1995.

2. 1995 Zijlstra RT, McCracken BA, Gaskins HR, **Donovan SM**, Gelberg HB, Odle J, Petschow BW. Protein energy malnutrition delays small-intestinal recovery in neonatal pigs infected with rotavirus. *International Symposium on Swine in Biomedical Research*, College Park, Maryland, October 1995.
3. 1995 Monaco MH, Houle VM, **Donovan SM**. Intestinal type I and type II insulin-like growth factor (IGF) receptor expression in piglets fed formula with or without IGF-I. *International Symposium on Swine in Biomedical Research*, College Park, Maryland, October 1995.
4. 2005 **Donovan SM**, Hartke JL, Monaco MH, Wheeler MB. (2005) Insulin-like growth factor-I and piglet intestinal development in biomedical models and transgenics. *International Symposium on Swine in Biomedical Research*, Chicago, IL, January 2005.
5. 2005 Conour JE, Rai D, **Donovan SM**, Gaskins HR. (2005) Total parenteral nutrition induces sulfomucin goblet cell expansion in the small intestine of a neonatal piglet model. *International Symposium on Swine in Biomedical Research*, Chicago, IL, January 2005.

Psychoneuroimmunology Research Society

1. 2010 Pence BD, Hester SN, Martin SA, **Donovan SM**, Woods JA. No effect of dietary yeast beta-glucan on antibody or cell-mediated response to influenza virus vaccine. 17th Annual PNIRS Meeting, Dublin, Ireland, June 2010.

B. PATENTS

US 6,677,500 B2: "Ungulates expressing exogenous IGF-I in their milk." Wheeler MB, Donovan SM, Bleck GT, and Monaco-Siegel, M, issued January 13, 2004.

US 7,169,963: "Mammals Expressing IGF-1 and Alpha-Lactalbumin in their Milk" Wheeler MB, Donovan SM, Bleck GT, and Monaco-Siegel, M, issued January 30, 2007.

C. RESEARCH SUPPORT

1. Principal Investigator

Grant Title & Co-Investigators	Source of Funding	Duration	Amount Awarded
Growth hormone and insulin-like growth factors in neonatal growth.	USDA Hatch ILLU- (50-0343) -	1991-1996	\$22,500
Insulin-like growth factors and IGF binding proteins in mammary physiology and lactation. (equipment grant)	UIUC Research Board	1991-1992	\$14,000
Insulin-like growth factors in intestinal development. [Co-Investigators: Odle J, Hatch TF]	NICHD R01 HD29264	1992-1997	\$502,939
Insulin-like growth factors in neonatal intestinal development. (equipment grant)	UIUC Research Board	1992-1993	\$6,000
Hormonal therapy during recovery from neonatal malnutrition: Effects on growth, body composition and the GH-IGF axis.	International Life Sciences Institute – Future Leader Award	1992-1993	\$30,000
Absorptive and metabolic responses of neonatal piglets to formulas containing intact or hydrolyzed proteins.	Wyeth-Ayerst Nutritionals	1994-1997	\$55,000

[Co-Investigators: Odle J, Gaskins HR]			
Small intestinal digestive enzyme activity and histology of piglets fed diets varying in lipid composition.	Wyeth-Ayerst Nutritionals	1996-1997	\$20,000
Small intestinal digestive enzyme activity and histology of piglets fed diets varying in lipid composition.	Wyeth-Ayerst Nutritionals	1996-1997	\$20,000
Insulin-like growth factor-I and neonatal intestinal development.	USDA Hatch ILLU- (50-0343) -	1996-2005	\$15,000
Development of therapies to enhance intestinal function of piglets on TPN: Oral administration of whey derived growth factor extract. [Co-Investigator: Gaskins HR]	Wyeth-Ayerst Nutritionals	1997-1999	\$95,563
Oral administration of IGF-I to suckling piglets as a means to improve growth and health during early weaning.	Illinois Pork Producers	1998-1999	\$12,000
Impact of dietary fat on intestinal function in neonates. [Co-Investigators: Drackley JK, Tappenden KA]	USDA NRI-Human Nutrient Requirements	2000-2003	\$120,000
Impact of IGF-I overexpression in pig mammary on lactation and piglet intestine. [Co-Investigators: Hurley WL, Wheeler MB]	USDA NRI-Animal Growth & Development	2001-2004	\$300,000
Development of nutritional therapies to enhance intestinal function of neonates.	Wyeth-Ayerst Nutritionals	2001-2003	\$115,000
Soybean isoflavones as modulators of neonatal intestinal development.	C-FAR Internal Grants	2001-2003	\$45,000
Nutritional regulation of neonatal intestinal development.	USDA Hatch ILLU- (50-0343) -	2005-2008	\$7,500
Defining the nutritional requirements of the developing intestinal ecosystem. [10 Co-Investigators]	Bristol Myers Squibb Freedom to Discover Award	2005-2009	\$500,000
Nutritional genomics of the neonatal intestine: Impact of colostrum on villus and crypt epithelial transcriptomes.	Wyeth Nutritionals	2005-2007	\$74,875
Efficacy of soy formula in preventing RV infection in piglets. [Co-Investigators: Kuhlenschmidt M, Berhow M]	The Solae Company	2005-2008	\$84,355
Adipocyte development in neonatal piglets receiving soy infant formula. [Co-Investigator: Cooke PS]	Illinois Soybean Association	2006-2009	\$54,500
Grant Title & Co-Investigators	Source of Funding	Duration	Amount Awarded
Assessment of carotenoid bioavailability in the neonatal piglet.	Wyeth Nutritionals	3/06-2/07	\$16,000
Assessment of nutrient bioavailability in the neonatal piglet.	Wyeth Nutritionals	4/07-3/09	\$102,831
Collection of human infant fecal samples for non-invasive detection of intestinal gene expression profiles using exfoliated cells. [Co-investigator: Hatch TF]	Mead Johnson Nutritionals	2005-2008	\$28,000
Genome-wide transcriptional responses of the neonatal Rhesus intestine to osteopontin.	Arla Foods	2007-2008	\$10,548
Effect of novel nutritional ingredients on the innate immune response. [Co-investigator: Woods JA]	Abbott Nutrition	2007-2008 2008-2009	\$257,754 \$135,338
Impact of a novel polysaccharide on bacterial translocation in the neonatal piglet. [Co-Investigator: Miller MJ]	Mead Johnson Nutritionals	2008-2009	\$169,676
Effects of a prebiotic, probiotics, and synbiotics on intestinal	Abbott	2008-2009	\$36,197

mucosal immunity and microbiota in a piglet model. [Co-Investigator: Zuckermann FA]	Nutrition		
Regulation of gene expression by osteopontin in formula-fed infants.	Arla Foods	2009-2012	\$126,787
Mechanisms by which human milk oligosaccharides protect against rotavirus. [Co-investigators: GC Fahey, MS Kuhlenschmidt, MJ Miller]	NIH R01 HD-061929	2009-2013	\$1,355,176
Influence of supplemental osteopontin on gene expression, intestinal development and response to RV vaccination and challenge in the neonatal piglet.	Arla Foods	2009-2011	\$254,388
Immune modulation of human and porcine immune cells by human milk oligosaccharides.	Abbott Nutrition	2009-2010	\$190,359
Use of a neonatal piglet model to investigate the role of nutritional components on physiological and immune function.	Pfizer Nutrition	2009-2012	\$465,547
Bioavailability and functionality of dietary nucleotides	Abbott Nutrition	2009-2011	\$401,377
Effect of bovine lactoferrin on the response to influenza vaccination in the neonatal piglet.	Mead Johnson Nutritionals	2011-2012	\$316,082
Illinois Transdisciplinary Obesity Prevention Program (I-TOPP). [Co-PI:DM Buchner, BH Fiese, RW Johnson] [Co-investigators: K Bost, D Grigsby-Toussaint , C Gundersen, K Harrison , C Hillman, J Kim, S-Y Lee, JM Liechty, B McBride, M Teran-Garcia, AR Wiley]	NIFA/USDA AG 2011-67001- 30101	2011-2016	\$4,500,000
Under Review			
Impact of human milk oligosaccharides on neonatal intestinal and immune development.	Glycom	2011-2014	\$691,553
Assessment of human milk oligosaccharide digestion and absorption in the neonatal piglet.	Glycom	2011-2013	\$39,252

2. Co-Principal Investigator:

Grant Title & Principal Investigator	Source of Funding	Duration	Amount awarded
Over-expression of IGF-I in milk to promote neonatal intestinal health [Co-Principal Investigator: Wheeler MB]	Animal Health and Disease Funds, Agric Expt Station	1996-1997	\$15,000
Efficacy of porcine milk oligosaccharides for the prevention and treatment of rotavirus disease. [Co-Principal Investigator: Kuhlenschmidt M]	Animal Health and Disease Funds	2003-2005	\$40,000
The STRONG Kids Project: Cross-disciplinary investigation on media effects on childhood obesity and health within a family and community context. [Co-Principal Investigators: Harrison K, Bost K, McBride B]	C-FAR Sentinel Grant Illinois Department of Human Services	2008-2011 2007-2008	\$294,000 \$97,000 (matching funds)
A quantitative investigation of eating habits of children and their caretakers' perceptions of picky eating. [Co-Principal Investigator: Lee, Soo Yun]	Nestlé Nutrition	2009-2010 2010-2012	\$17,435 \$128,215
Under Review			

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3. Co-Investigator or Collaborator:

Grant Title & Principal Investigator	Source of Funding	Duration	Amount awarded
Effect of additional arginine administration on serum levels of insulin-like growth factor-I. [Principal Investigator: Visek, WJ]	UI College of Medicine and Carle Hospital	1993-1994	\$8,000
Development of a piglet model for the study of intestinal repair following injury. [Principal Investigator: Odle, J]	Mead Johnson	1993-1995	\$31,800
Recovery from growth retardation: Anabolic responses. [Principal Investigator: Layman, DK]	NIH NIDDK R01 HD27558	1993-1996	\$413,184
Development of transgenic mice which over-express human insulin-like growth factor-I (IGF-I) in milk. [Principal Investigator: Wheeler MB]	UIUC Research Board	1996	\$27,000
Transgenic alteration of sow milk to improve piglet growth and health. [Principal Investigator: Wheeler MB]	C-FAR	1996-1998	\$137,670
Steroid-induced growth and skeletal disorders during development: mechanisms and adjunctive therapies. [Principal Investigator: Atkinson SA]	Medical Research Council of Canada	1997-2000	\$120,000
Neonatal intestinal function and resistance to diarrhea: impact of soy fiber. [Principal Investigator: Tappenden KA]	C-FAR Internal Grants	1998-2000	\$123,000
Transgenic alteration of sow milk to improve piglet growth and health. [Principal Investigator: Wheeler MB]	C-FAR Internal Grants	1998-2000	\$20,000
University of Illinois Transgenic Swine Program. [Principal Investigator: Wheeler MB]	C-FAR Sentinel Program	2000-2006	\$762,961
Cysteine, intestinal thiols and goblet cell development. [Principal Investigator: Gaskins HR]	NIH NIDDK R01 DK61568	2003-2009	\$1,516,000
Future Foods Initiative [Principal Investigators: Dong FM, Pueppke SG, Khanna PK]	USDA Special Grants Program	2003-2006	\$505,000 (\$25,000 to SMD)
The roles of soybean components in human health. [Principal Investigator: Dong FM]	Illinois Soybean Association	2003-2004	\$42,000 (\$10,000 to SMD)
Grant Title & Co-Investigators	Source of Funding	Duration	Amount Awarded
Molecular markers and mediators of porcine reproductive tract development [Principal Investigators: Bartol FF, Bagnell CA] [Collaborator: Donovan SM]	USDA NRI Animal Growth & Development	2007-2010	\$343,912 (\$0 to SMD)
Future Foods Initiative [Principal Investigator: Dong FM]	USDA Special Research Grants Program	2008-2011	\$457,439 (\$23,000 to SMD)
MRI: Acquisition of a Molecular Imaging Instrument for Dynamic Material and Biological Systems [Principal Investigator: Boppart SA; co-investigators: Werth CJ, Schook LB, White SR, Donovan SM]	NSF Major Research Instrumentation Program NSF CBET 09-22539 EQ ARRA	2009-2012	\$1,770,910
Impact of novel polysaccharides on the microbiota of neonatal piglets. [Principal Investigator: Miller, MJ]	Mead Johnson Nutrition	2009-2010	\$102,238
Trajectories of unhealthy weight gain and eating habits in preschool age children: A cells to society approach.	College of AHS Health and Wellness	2010-2011	\$50,000

[Principal Investigator: Fiese BH]	Initiative		
Early identification of childhood obesity: assessing body composition and genetic markers. [Principal Investigator: Teran-Garcia M; co-investigators: Donovan SM; Evans E]	University of Illinois Research Board	2010-2011	\$17,000
Under Review			
Efficacy of microencapsulated probiotic delivery system determined in neonatal piglet and rodent models <i>in vivo</i>. [Principal Investigator: Lee Y; co-investigators: Donovan SM; Jin Y-S, Miller MJ]	NIFA	2011-2015	\$400,215

4. Training Grants:

Grant Title	Source of Funding	Duration	Amount awarded
Training in Human Nutrition – <i>Macronutrients and Genomics.</i>	USDA Nat'l Needs AG 2001-05618	2002-2007	\$276,000
Inflammation and Nutritional Dysfunction.	T32 DK59802-01 T32 DK59802-06	2002-2008 2008-2013	\$1,022,337 \$855,593
Training in Human Nutrition – <i>Soy and Human Health</i>	USDA Nat'l Needs AG 2005-02532	2005-2010	\$138,000
Training in Human Nutrition – <i>Obesity Prevention from Cell to Community</i>	USDA Nat'l Needs AG 2008-03560	2008-2013	\$234,000
Summer Training in Translational Biomedical Research. PI: Hoyer, Lois	T35 RR020292-06	2010-2015	\$285,525

D. CONFERENCES ORGANIZED

1. ***"First International Conference of the Glycobiology of Human Milk Oligosaccharides."*** Sponsored by Glycom. Tivoli Hotel, Copenhagen, Denmark, May 16 and 17, 2011.
2. ***"Agri-Medical Research: Providing Dual Benefit for Agriculture and Human Health."***Sponsored by the American Society for Nutrition, the American Society of Animal Science and the American Dairy Science Association. New Orleans, LA. July 9, 2011

E. SYMPOSIA AND MINISYMPOSIA ORGANIZED AND CHAIRED

1. Symposia Organized and Chaired:

- "Immunomodulatory Components in Human Milk", Experimental Biology 2009, New Orleans, LA
- "Probiotics for Optimal Nutrition: from Efficacy to Guidelines", Experimental Biology 2012, San Diego, CA
- "Establishing and Evaluating Health Claims for Probiotics", Experimental Biology 2012, San Diego, CA

2. Minisymposia Chaired:

- Co-Chair, Infant, Maternal & Neonatal Nutrition Minisymposium, Experimental Biology 1993, New Orleans, LA
- Chair, Regulation of Growth Minisymposium, Experimental Biology 1997, New Orleans, LA

- Chair, Proctor & Gamble Graduate Student Abstract Competition, Experimental Biology 2002, New Orleans, LA

F. INVITED PRESENTATIONS

- 1990 "Insulin-like growth factors in pregnant, lactating and neonatal rats." Department of Nutrition, Pennsylvania State University, College Park, PA.
- 1990 "Insulin-like growth factors in pregnant, lactating and neonatal rats." Division of Foods and Nutrition, University of Illinois, Urbana, IL.
- 1990 "Insulin-like growth factors and IGF binding proteins: effects of neonatal malnutrition in the rat and levels of IGFs in rat and human milk." Mead Johnson, Evansville, IN.
- 1991 "IGFs and IGF binding proteins in pregnant, lactating, and neonatal rats." Monsanto Corporation, Animal Sciences Division, St. Louis, MO.
- 1991 "Insulin-like growth factors (IGF) and IGF binding proteins in pregnant, lactating, and neonatal rats." Division of Nutritional Sciences, University of Illinois, Urbana, IL.
- 1992 "Effect of nutrition on IGFs and IGF binding proteins." Division of Foods and Nutrition, Purdue University, West Lafayette, IN.
- 1992 "IGFs and IGFs during pregnancy and neonatal life." Endocrine Section, College of Medicine, University of Illinois, Chicago, IL.
- 1992 "Nutritional regulation of IGFs and IGF binding proteins during pregnancy and neonatal life." Department of Biological Sciences, Northern Illinois University, Dekalb, IL.
- 1993 "Role of EGF and IGF in the neonatal intestine: development of a piglet model." *IX Symposium on Bioactive Substances in Milk and Their Effects in the Neonate*, Bratislava, Slovakian Republic.
- 1994 "EGF and IGF in milk and their potential role in neonatal intestinal development." Department of Pediatrics, McMaster University Medical Centre, Hamilton, Ontario, Canada.
- 1994 "EGF and IGF in milk and their potential role in neonatal intestinal development." Department of Endocrinology, Hôpital de Sainte Justine, Montréal, Quebec, Canada.
- 1995 "Growth factors in milk: Roles in normal intestinal development and during repair." Nutrition Graduate Group, Texas A&M, College Station, TX.
- 1995 "Growth factors in milk: Roles in normal intestinal development and during repair." Children's Nutrition Research Center (CNRC), Baylor University, Houston, TX.
- 1995 "The neonatal piglet as a model to study insulin-like growth factor mediated intestinal growth and function." *International Symposium on Swine in Biomedical Research*, College Park, MD.
- 1997 "Intestinal effects of orally administered insulin-like growth factor-I in the neonatal piglet." Dept. of Foods & Nutrition and Dept of Animal Science, Purdue University, West Lafayette, IN.
- 1997 "Intestinal effects of orally administered insulin-like growth factor-I in the neonatal piglet." Dept of Nutrition and Dept. of Animal Science, University of Connecticut, Storrs, CT.
- 1997 "Impact of limited enteral stimulation and insulin-like growth factor-I on intestinal development of parenterally-fed piglets." Mead Johnson, Evansville, IN.

- 1998 "Enterally administered growth factors enhance intestinal development of piglets on total parenteral nutrition." Dept of Food Science and Human Nutrition, University of Missouri, Columbia, MO. **(Student-selected Invited Professor for Nutrition Emphasis Week, 1998)**
- 1998 "Impact of limited enteral stimulation and insulin-like growth factor-I on intestinal development of parenterally-fed piglets." Wyeth-Ayerst Global Pharmaceuticals, Philadelphia, PA.
- 2000 "Transgenic over-expression of bovine alpha-lactalbumin and human IGF-I in porcine milk: effects on milk composition and neonatal outcomes." Presented as part of a symposium entitled "*Biologically Active Peptides and Proteins in Milk.*" *American Dairy Science Association Meeting*, Baltimore, MD.
- 2002 "The ASNS Graduate Nutrition Education Committee Initiative on the Future of Graduate Nutrition Education." Presented as part of the workshop on "*Approaches to Teaching Nutrition as an Integrative Science*" *Experimental Biology*, New Orleans, LA.
- 2002 "Enterally administered growth factors enhance intestinal development during total parenteral nutrition." Presented as part of a symposium entitled "*Intestinal Adaptation in Neonates.*" *North American Society for Pediatric Gastroenterology, Hepatology and Nutrition (NASPGHAN) Meeting*, San Antonio, TX.
- 2003 "Over-expression of IGF-I on piglet intestinal growth." Presented as part of a symposium entitled "*Impact of Intestinal Development and Health on Growth*" at the *Annual Meeting of the American Society for Animal Sciences*, Phoenix, AZ.
- 2004 "Therapies to ameliorate TPN-induced abnormalities in intestinal structure and digestive and immune function." Wyeth Nutrition, Philadelphia, PA.
- 2005 "Insulin-like growth factors and intestinal development of artificially reared pigs and piglets suckling IGF-I transgenic sows". *International Symposium on Swine in Biomedical Research*, Chicago, IL.
- 2005 "Functional components in children's diets." Kraft Foods, Chicago, IL.
- 2005 "Improving infant formulas: Role in lifelong nutritional health". Boston Nutrition Seminar, Boston, MA.
- 2005 "Therapies to ameliorate TPN-induced abnormalities in intestinal structure and digestive and immune function." Gastroenterology Division, Boston Children's Hospital, Boston, MA.
- 2005 "Safety and disease prevention of daily soy protein consumption in children." Empresa Comercializadora de Alimentos (Alimport), Havana, Cuba
- 2005 "Role of human milk components on gastrointestinal development: Current knowledge and future needs." 25th Anniversary Symposium, Bristol-Myers Squibb/Mead Johnson Freedom to Discover Nutrition Program, University of Cincinnati, OH.
- 2005 "Therapies to ameliorate TPN-induced abnormalities in intestinal structure and digestive and immune function." Pediatric Grand Rounds, Department of Pediatrics, Northwestern University School of Medicine, Evanston Hospital, Evanston, IL.
- 2005 "Soy isoflavones and intestinal health". Institutes of Food Research, Nutrition, Public Health and Education of the Republic of Cuba Havana, Cuba
- 2005 "Soy in the diets of infants and children." Illinois Council for Food and Agricultural Research (C-FAR) Semi-Annual Meeting, Springfield, IL.
- 2005 "The effects of soy in Cuban children participating in the government feeding program." *Symposium on Effects of Soy on Growth and Development: How Much Do We Know?* Chicago, IL.

- 2006 "The piglet as a biomedical model to develop therapies to ameliorate TPN-induced abnormalities in intestinal structure and digestive and immune function." Translational Biomedical Research Seminar Series, Urbana, IL.
- 2006 "Soy infant formula and neonatal intestinal development." The Solae Company, St. Louis, MO.
- 2006 "The effects of soy in Cuban children participating in the government feeding program." Soy Nutrition Institute meeting, St. Louis, MO.
- 2006 "Soy formula components: Effects on neonatal intestinal development and prevention of rotavirus infection." Arkansas Children's Nutrition Center, Little Rock, Arkansas.
- 2006 "Effect of milk components on intestinal gene expression in the piglet model." *Breast Milk: Physiology, Biochemistry and Outcomes. The 2006 Meeting of the International Society for Research in Human Milk and Lactation.* Niagara-on-the Lake, Ontario, CANADA.
- 2006 "American Society for Nutrition past, present and future: Key role for department heads." Annual meeting of the Association of Nutrition Departments and Programs (ANDP), Washington, D.C.
- 2006 "Nutrition in pregnancy: Implications for lifelong health." Community Medical School, Carle Hospital and University of Illinois College of Medicine, Urbana, Illinois
- 2007 "Soy in the diets of infants and children." Illinois Dietetic Association Meeting, Oakbrook, IL.
- 2007 "Interdisciplinary graduate programs to promote diabetes research." International Forum on the Diabetes Epidemic, Champaign, IL.
- 2007 "USDA National Needs fellowships as a means to promote interdisciplinary graduate education." National Needs Fellowships and Multicultural Scholars Program Project Directors and Beneficiaries Meeting Washington, DC.
- 2007 "Enterally administered bovine colostrum extract modulates intestinal barrier function and immune gene expression in parenterally-fed neonatal piglets." 4th International Symposium on Milk Genomics and Human Health, Napa, CA.
- 2007 "Survey of interdisciplinary nutrition graduate programs." Annual meeting of the Association of Nutrition Departments and Programs (ANDP), Purdue, IN.
- 2008 "Inhibitory actions of human and porcine milk oligosaccharides against sialic acid-dependent and -independent rotavirus." 14th Int'l Conference of the Society for Research on Human Milk and Lactation (ISRHML), Perth, Australia.
- 2008 "Interdisciplinary nutrition research and graduate education at the University of Illinois." University of Copenhagen, Denmark.
- 2008 "Enterally administered bovine colostrum extract modulates intestinal barrier function and immune gene expression in parenterally-fed neonatal piglets." University of Copenhagen, Denmark.
- 2008 "Genome-wide transcriptional responses of the neonatal Rhesus intestine to osteopontin" Arla Foods, Aarhus, Denmark
- 2008 "Actions of soy formula and soy isoflavones in the developing intestine." VII Biennial Nestle Nutrition Conference, Mexico City.
- 2008 "Functional genomics of the developing intestine: Impact of nutrition." Arkansas Children's Nutrition Center, Little Rock, AR.
- 2009 "Breast is best? How do we study the biological effects of mother's milk?" Department of FSHN Pioneer Seminar Series, University of Illinois, Urbana.

- 2009 "Strategies for Successful Submission." Division of Biomedical Sciences Faculty Development Series, Panel Member, University of Illinois, Urbana.
- 2010 "Collection of human infant fecal samples for non-invasive detection of intestinal gene expression profiles using exfoliated cells." Carle Foundation Hospital, Lunch 'N' Learn Series, Urbana, IL.
- 2010 "Transcriptomics of the developing intestine: How mother's milk influences gene expression in the infant gut." Cincinnati Children's Hospital, Cincinnati, OH.
- 2010 "Transcriptomics of the developing intestine: Mother's milk influences genes regulating stem cell maintenance and commitment." Institute for Genomic Biology, University of Illinois, Urbana.
- 2010 "Non-invasive stool-based detection of newborn infant gastrointestinal development using gene expression profiles derived from exfoliated epithelial cells." Experimental Biology 2010, Anaheim, CA.
- 2010 "Human milk: Role of indigenous prebiotics and probiotics" International Scientific Association for Pre and Probiotics, Barcelona, Spain.
- 2010 "Non-invasive assessment of the intestinal transcriptome of breast- and formula-fed infants." 15th International Conference of the Society for Research on Human Milk and Lactation (ISRHML), Lima, Peru.
- 2010 "Non-invasive assessing of intestinal gene expression profiles in breast- and formula-fed human infants using exfoliated epithelial cells collected from stool." 7th International Symposium on Milk Genomics and Human Health, Davis, CA.
- 2010 "Non-invasive assessing of intestinal gene expression profiles in breast- and formula-fed human infants using exfoliated epithelial cells collected from stool." University of Chicago GI Research Conference.
- 2011 "Transcriptomics of the developing intestine." First International Conference on Human Milk Glycobiology, Copenhagen, Denmark.
- 2011 "Transcriptional Responses of the Neonatal Rhesus Intestine to Osteopontin." European Society for Pediatric Gastroenterology, Hepatology and Nutrition, Sorrento, Italy.

G. PUBLIC OUTREACH AND CONTINUING EDUCATION RESOURCES ON THE INTERNET ...

- June 2010 Edited monograph entitled "Prebiotics in Infant Nutrition" featured as this professional educational material on an accredited education website, *Pediatric NutritionCE.org*
<http://www.pediatricnutritionce.org>
- July 2010 Interview on human milk included in "Mother's Milk Health Center" on Visual MD web site
http://www.thevisualmd.com/health_centers/child_health/mother_s_milk/mother_s_milk_video

IV. Mentoring

A. VISITING SCHOLARS

Name	Year	Title	Institution
Nevin Atkas	8/2001 - 5/2002	Professor & Dept Head	Department Foods & Nutrition, Harran University,

			Turkey
Yao Li	9/2008 - 12/2009	Professor	Department of Animal Nutrition & Feed Science, Northeast Agricultural University, Harbin, Heilongjiang, P.R. China
Xin Chen	9/2009 - 9/2010	Graduate Student	Department of Animal Nutrition & Feed Science, Northeast Agricultural University, Harbin, Heilongjiang, P.R. China

B. POST-DOCTORAL SCHOLARS

Name	Years in Training	Current Position
Jane (Chen-Hui) Chao Ph.D. Ohio State University	1993-1995	Professor, Taipei Medical College, Taiwan
Marcia Monaco Ph.D. University of Illinois	1995-1999	Senior Research Specialist, Dept of Food Science and Human Nutrition, UIUC
Mei Wang Ph.D. University of Lund, Sweden	1/07 - present	<i>In training</i>
Sarah Comstock Ph.D. University of California, Davis	3/08 - present	<i>In training</i>
Min Li Ph.D. Medical School of Shanghai Jiao Tong University	9/09- present	<i>In training</i>

C. GRADUATE STUDENTS

Name	Degree	Years in Training	Thesis/Dissertation Title	Current Position
Xiaohui (Sheila) Zhao B. Med & M. Med Nanjing Medical College	Ph.D.	1991-1995	Hormonal therapies during recovery from neonatal malnutrition in rats.	Assistant Clinical Professor, Department of Pathology & Laboratory Medicine, UC Irvine, CA
Marcia Monaco BS - Univ. Catolica de Campinas, Brazil MS – Univ. of Rhode Island	Ph.D.	1991-1995	Characterization of the IGF system in food-restricted pregnant and lactating rats: role of IGF-I in nutrient partitioning.	Senior Research Associate, University of Illinois, Urbana
Lisa Mangione BS – Univ Illinois, Urbana	M.S.	1992-1995	Development of a breastfeeding education program for teen mothers.	Public Health Nutritionist, Los Angeles, CA
Name	Degree	Years in Training	Thesis/Dissertation Title	Current Position
Vicki Houle BS – Carlton College, MN	Ph.D.	1993-1997	Oral insulin-like growth factor-I and development of the small intestine in the neonatal piglet.	Senior Medical Writer, Boston Scientific, Marlborough, MA
Yoo Kyoung Park BS & MS Yonsei Univ. South Korea	Ph.D.	1994-1999	IGF-I combined with partial enteral nutrition alters intestinal morphology and disaccharidase activity during parenteral nutrition in neonatal piglets.	Assistant Professor, Kyung-Hee University, S. Korea
Deshanie (Ganessunker) Rai BS - Univ. Natal, S. Africa MS - Univ Illinois, Urbana	Ph.D.	1995-1999	Route of nutrient administration alters intestinal immune cell composition in neonatal piglets.	Senior Scientific Leader, Scientific Affairs, DSM Nutritional Products, Belvidere, NJ
Nikki Baechler BS - Univ Illinois, Urbana	M.S.	1997-1999	Non-thesis	Pediatric ICU Dietitian, Order of St Francis Hospital, Peoria IL
Megan McCarthy	M.S.	1998-2000	Dietary LCPUFA alter intestinal fatty acid	Financial Analyst, Biotechnology

BS – Wake Forest University			profiles, but do not impact the digestive function of neonatal piglets.	and Biomedical, RK Capital Mgmt, LLC, Boulder, CO
Matthew P. Gardner BS –Univ Illinois, Urbana	M.S.	1999-2001	Non-thesis	Orthopaedic Surgeon, University of Kansas School of Medicine, Wichita, KS
An-Chian Chen BS – UC Berkeley	Ph.D.	1998-2004	The soy isoflavone, genistein, as a modulator of intestinal development.	
Nancy Correa-Matos (co-advised w/ Kelly Tappenden) BS & MS, Univ Puerto Rico, San Juan	Ph.D.	1998-2005	Effects of dietary fiber on neonatal intestinal development and resistance to <i>Salmonella typhimurium</i> infection in piglets.	Assistant Professor, Dept of Public Health, Univ. North Florida, Jacksonville, FL
Fernanda Mateos MD - National University of La Plata, Argentina	M.S.	2000-2002	Non-thesis	Educational Psychology, Illinois Extension, University of Illinois, Urbana, IL
Jill Gorski BS - Univ Illinois, Urbana	M.S.	2001-2003	Impact of dietary fatty acids on intestinal digestive and immune function in a piglet model of necrotizing enterocolitis.	Project Leader, Renal Division, Baxter, McGaw Park, IL
Jessica Hartke BS - Southern Illinois MS - Southern Illinois	Ph.D.	2001-2006	Intestinal development and gene expression of piglets suckling sows transgenic for human IGF-I.	Program Coordinator, Division of Nutritional Sciences, Univ. Illinois, Urbana, IL
Kenya Thomas BS - Univ Illinois, Urbana	M.S.	2002-2004	Non-thesis	Medical School, University of Illinois, Chicago
Karen Ochonicky BS - Univ Illinois, Urbana	M.S./ D.V.M. (2008)	2003-2005	Inhibitory effects of human and porcine milk oligosaccharides on sialic acid-dependent and –independent strains of rotavirus.	Associate Senior Scientist, Elanco Animal Health, Eli Lilly and Company, Greenfield, IN
Aline Andres BS and MS - Ecole Supérieure d'Agriculture de Purpan	Ph.D.	2003-2007	Effect of soy isoflavones on rotavirus infectivity in vitro and in vivo.	Assistant Professor, Dept of Pediatrics, University of Arkansas
Pascasie Adedze (co-advised w/ Robin Orr) BS - Univ of Dakar, Senegal MPH - UCLA	Ph.D.	2002-2009	Childhood obesity prevention program for children enrolled in Head Start.	Postdoctoral Fellow, Department of Food Science & Human Nutrition, University of Illinois, Urbana
Rose Ann Mathai BS – Miami Univ, OH	M.S.	2006 - 2009	Soy formula components and intestinal function in health and disease.	Doctoral Candidate, Division of Nutritional Sciences, University of Illinois, Urbana
Brooke Schantz BS – Purdue Univ	M.S./ R.D.	2006 2009	Soy infant formula components and adipocyte development in piglets	Outpatient Dietitian, Loyola University Medical Center, Chicago
Name	Degree	Years in Training	Thesis/Dissertation Title	Current Position
Emily Radlowski BS –Univ Illinois, Urbana	Ph.D./ R.D.	2007 -	Effect of route of delivery and early neonatal nutrition on the development of the intestinal microbiota of piglets.	<i>In training</i>
Mandy Mayeaux (co-advised w/ Soo Lee) BS – Louisiana State Univ.	M.S.	2008-2010	Defining perceptions of picky eating: a qualitative and quantitative investigation of early childhood mealtime behaviors	Sensory Scientist, Bush Brothers, Chestnut Hill TN
Allyson Bares BS – Univ of Utah, Provo	M.S.	2008-2010	Effects of early nutrition on the Wnt and bone morphogenic protein pathways in the developing intestine.	Research Associate - Oregon Health Sciences University
Shelly Hester BS – Purdue University	Ph.D./ R.D.	2008-	Development of intestinal innate immunity in the piglet.	<i>In training</i>
Shannon Cope BS – BYU, Utah	M.S./ R.D.	2008-2011	Effect of novel nutritional ingredients on piglet response to vaccination.	Searching for Position, Portland, Oregon

Dimitri Kashtanov (advised w/ Mike Miller) BS – Rutgers University	M.S.	2008-	Impact of a novel polysaccharide on bacterial translocation in the neonatal piglet.	<i>In training</i>
Jin Lu BS – Tianjin Medical University, China	M.S.	2009-2011	Impact of osteopontin on neonatal intestinal development and response to vaccination.	Doctoral Student, Columbia University, NY
Elizabeth Reznikov BS – Albion College, MI	Ph.D.	2009-	Impact of bovine lactoferrin on mucosal immunity in the neonatal piglet.	<i>In training</i>
Naiman Khan BS – Louisiana State Univ. MS –Univ Illinois, Urbana	Ph.D./ R.D.	2010 -	Maternal education influences on BMI for age and central adiposity in prepubertal children of lower SES	<i>In training</i>
Amy McInness BS – Biology, Iowa State University	M.S.	2010-	Developmental outcomes of picky eating	<i>In training</i>
Jill Shunk BS – Southern Illinois University, Carbondale I	M.S.	2010-	Impact of bovine lactoferrin on mucosal immunity in the neonatal piglet.	<i>In training</i>
Kilia Yun Li BS – UIUC	M.S.	2010-	Impact of bovine lactoferrin on natural killer cell activity in the neonatal piglet.	<i>In training</i>
Samantha Roberts BS – University of Wisconsin Whitewater	M.S.	2011-		<i>In training</i>

D. UNDERGRADUATE STUDENTS

Name	Research Scholarship	Degree	Period of Training	Post Training Position	Current Position (if known)
Laura Strain	JBT	Dietetics	1992-1993	Dietetic Internship	
Anna Mies	JBT	Foods & Nutr	1993-1994	Medical school, Southern Illinois Univ.	Physician, Springfield, IL
Beth Schroeder	JBT	Dietetics	1994-1996	Dietetic Internship	Corporate Dietitian, Ceres Food Group, Chicago
Stacy Laswell	SROP	Dietetics	1995-1997	Peace Corps, Dominica	School Public Health, Emory University
Kris Mulvey		Biology	1997-1998	Medical School- UIC	Physician, Chicago IL
Jacklyn Chi		Dietetics	1998-1999	Graduate school, Cornell	
Julie Dickerson		Dietetics	1997-1999	Dietetic Internship	
Meghan Keller		Dietetics	1998-1999	Dietetic Internship	
Kristen Johnson		Dietetics	1999-2000	Dietetic Internship	
Sarah Luby		Food & Nutr	1999-2000	Dietetic Internship	
Name	Research Scholarship	Degree	Period of Training	Post Training Position	Current Position (if known)
Jaclyn Lynch	JBT	Dietetics	1999-2000	Nursing school	
Suzanne Pelletier	JBT	Dietetics	1999-2000	Graduate school, UIUC	Dietitian, Chicago
Jill Gorski		Animal Sci	1999-2001	Graduate school, UIUC	Project Leader, Renal Division, Baxter, McGaw Park, IL
Megan Bengtson	JBT	Dietetics	2000-2001	Dietetic Internship	
Jennifer Ventrelle		Dietetics	2000-2002	Dietetic Internship	
Jackie Klingele	JBT	Dietetics	2001	Dietetic Internship	
Kristin Ann Hilleary	JBT	Dietetics	2001-2002	Dietetic Internship	
Karen Ochonicky	JBT	Animal Sci	2002-2003	Veterinary school, UIUC /M.S. Nutritional Sciences	Associate Senior Scientist, Elanco Animal Health, Eli Lilly and Company, Greenfield, IN
Christine Brizzolara		Molec Cell Biol	2003	Graduate school, Southern Illinois Univ.	
Lyn Edmonson		Animal Sci	2002-2003	Veterinary school, UIUC	

Jennifer Lee		Molec Cell Biol	2004-2005	Graduate school, UIUC	
Jennifer Gunness	JBT	Dietetics	2004-2006	Dietetic Internship	
Sarah Taylor	JBT; James Scholar	Animal Sci	2005-2007	Early admission to Vey school at UIUC	
Beth Helregel	JBT	Dietetics	2005-2006	Dietetic Internship	
Michelle Wyszomirski	James Scholar	Molec Cell Biol	2006	Education abroad, Spain	Completing undergraduate degree
Stephanie Haines		Dietetics	2006-2007	Completing B.S. at UIUC	
Stacey Dehlinger		Dietetics	2006-2007	Completing B.S. at UIUC	
Chelsea Wood	JBT; James Scholar; Howard Hughes Fellow	Dietetics	2006-2007	Completing B.S. at UIUC	Dietetic Internship at OSF, Peoria, IL
Brittany Switzer		Molec Cell Biol	2006-2008	Veterinary school at UIUC	
Amanda Baumgartner		Animal Sci	2007-2009	Applying for research positions	
Robert Trimble		Animal Sci	2008	Completing B.S. at UIUC	
Spencer White		Animal Sci	2008	Completing B.S. at UIUC	
Brittney Myers		Animal Sci	2008-2009	Completing B.S. at UIUC	
Christina Chapel		Animal Sci	2008-2009	Completing B.S. at UIUC	
Yukari Ohtomo		Animal Sci	2008-2009	Applying to Veterinary School	
Rhae Battles		Molec Cell Biol	2008-2009	Completing B.S. at UIUC	
Michael Mrozinski		Philosophy	2008-2009	Graduate School, Purdue University	
Anthony Chang		Molec Cell Biol	2009	Graduate School, University of Illinois	
Yu Chen		Molec Cell Biol	2009-2011		
Maegan Walrath		Dietetics	2009-2011		
Abigail Lutz		Dietetics	2009-		
Kilia Yun Liu		Human Nutrition	2009-2010	Graduate School, University of Illinois	
Sharon Kim		Dietetics	2009-2010		
Jeane Choi		Molec Cell Biol (ROTC)	2010		
Reeba Jacob		Molec Cell Biol	2010-2011		

V. Service

A. PROFESSIONAL SOCIETIES

- American Gastroenterological Society, 1998 - present

- American Society for Nutrition (Formerly ASNS and ASCN), 1989-present -

Elected Offices:

- Nominating Committee for Elected Officers, 1997
- Councilor, 1999-2002
- Secretary, 2002-2005
- Vice President-elect, 2009-2010
 - Executive Board Liaison to the Graduate and Professional Education Committee
- Vice President, 2010-2011
- President, 2011-2012
- Past-President, 2012-2013

Committees:

- Graduate Education Committee, 1998-2001

- *Selection Committee for Bio-Serve Research Award, 1998*
- *Editorial Advisory Committee for ASNS Nutrition Notes, 1999-2004*
- *Nutrition Program Planning Committee for EB 2001*
- *Nominating Committee for Bio-Serv Research Award, 2002-2005, Chair 2005*
- *Selection Jury for Peter J. Reeds Young Investigator Award, 2003, 2004, 2005, 2006*
- *Joint Council Advisory Committee for Society Reorganization, 2004-2005*
- *Secretary, Transition Executive Board, 2005-2006*
- *Steering Committee, Energy and Macronutrient RIS, 2005-2007*
- *Search Committee, Executive Officer, 2006*
- *Selection Jury for Excellence in Teaching Award, 2006*
- *Strategic Oversight Committee, 2007-2010*
- *Selection Jury for 2008 Bio Serv, Weinsier and McCormick Awards, 2007*
- *Strategic Taskforce on Structure and Council Interactions, Nutritional Sciences Council, 2008-2010*
- *Chair, Human Milk and Lactation RIS, 2008; Past-Chair, 2009*
- *Selection Jury for 2009 Centrum Award*
- *Nominating Committee for 2010 Young Investigator Awards*

• **Endocrine Society, 1991 - 2002**

- *Co-Chair, Insulin-like Growth Factor Binding Protein Actions Minisymposium, 1993*

• **Gamma Sigma Delta Agriculture Honor Society, Illinois Chapter 1997-present**

- *Membership Committee, 1997 -*
- *Secretary- Treasurer, 1998-1999*
- *Vice President, 1999-2000*
- *President, 2000-2001*

• **International Society for Research on Human Milk and Lactation, 1986-present**

- *Executive Committee, 1997-2000*
- *Nominating Committee for Elected Officers, 2000-01*
- *Executive Committee, 2007-2010*
- *Nominating Committee for Elected Officers, 2010-11*

• **International Society for Insulin-like Growth Factor Research, 1994-present**

• **Society for Experimental Biology and Medicine, 2003-2010**

B. NATIONAL AND INTERNATIONAL GRANT REVIEW SERVICE:

CANADIAN DIABETES ASSOCIATION, 1993

NATIONAL INSTITUTES OF HEALTH

NICHD Site Review Committee for Program Project on *Growth Factors in Neonatal Development*, University of Arizona, Tucson, May 1994

NIDDK Review Committee, Special Emphasis Panel *Clinical Nutrition Research Unit Core Centers (RFA DK04-016)*, March 2005

NIDDK Review Committee, Special Emphasis Panel *Obesity Nutrition Research Centers (RFA DK04-021)*, November 2005

NIDDK-C Review Committee, *Digestive Diseases and Nutrition Mentored Awards*, October 2008

NIDDK Review Committee, Special Emphasis Panel, *Digestive Diseases and Nutrition Fellowships ZK1 GRB-2 (M1)*, 2008-2011

NIDDK Review Committee, *Digestive Diseases and Nutrition Mentored Awards ZK1 GRB-6 (J3 1)*, November 2009

NIDDK Review Committee, Special Emphasis Panel, 2011/01 DDK-C 1, November 2010

NATIONAL SCIENCES AND ENGINEERING RESEARCH COUNCIL OF CANADA, 1998

UNITED STATES DEPARTMENT OF AGRICULTURE

Review Panel Member, NRI Competitive Grants Program: *Animal Growth, Development and Nutrient Utilization*, June 2001

Review Panel Member, Office of Scientific Quality Review (OSQR): *ARS National Program (NP) 107 Human Nutrition - Pediatric Clinical Nutrition*, October 2003

Ad hoc reviewer, National Research Initiative Competitive Grants Program:
Animal Molecular Genetics, 1992

Animal Growth, Development and Nutrient Utilization, 1994-98, 2000, 2002, 2003, 2004, 2006

Bioactive Food Components for Optional Health, 2003, 2005

Human Nutrient Requirements, 1994, 1995, 2001, 2002, 2004

SWISS NATIONAL RESEARCH FOUNDATION, 1999

C. PROGRAM REVIEW

- Graduate Center for Nutritional Sciences, University of Kentucky, Lexington, April 1998
- Interdepartmental Program in Nutrition, North Carolina State University, Raleigh, November 2007
- Department of Clinical Sciences, University of Kentucky, Lexington, April 2010

D. EDITORIAL SERVICE

- *ASNS Nutrition Notes*, Regional Associate Editor 1995-2004
- *Journal of Nutrition*, Experimental Biology Symposium Editor, 2001-2002
- *Journal of Pediatrics*, Guest Editor for BMS Symposium Supplement, Volume 49, Supplement 3, September 2006

Ad hoc reviewer:

American Journal of Clinical Nutrition

American Journal of Physiology

Biochimie

Comparative Biochemistry and Physiology

Endocrinology

Food Reviews International

Journal of Animal Science

Journal of Clinical Endocrinology and Metabolism

Journal of Comparative Endocrinology

Journal of Dairy Science

Journal of Endocrinology

Journal of Nutrition

Journal of Nutritional Biochemistry

Journal of Pediatric Gastroenterology & Nutrition

Pediatric Research

Peptides

Physiological Genomics

Physiology & Behavior

PLOS One

Reproduction, Fertility and Development

Scandinavian Journal of Gastroenterology

E. PUBLIC SERVICE

Committees and Expert Panels:

- Member, State of Illinois Early Intervention Personnel Development Committee, 1991-1992
- Member, State of Illinois Breastfeeding Task Force, 1992-1995
- Dairy Expert, The Dairy Coalition BST Infoline, Washington D.C., 1995-1997
- Editorial Review Board Member for "Fast and Healthy", a bi-monthly health and nutrition magazine published for the lay public by Pillsbury, 1995-1999

Extension and Outreach Presentations:

- Cooperative Extension Annual Conference, "*Nutrition During Pregnancy*," University of Illinois, Urbana, IL, April 20, 1992
- Statewide Teleconference for UI Extension Educators and other Professionals on the topic of "*Childhood Obesity: Causes, Consequences and Management*," April 19, 2002.
- Presentation to Central Illinois Dietetic Association on the topic of "*Cradle, Crawler and Child: Your Guide to Pediatric Nutrition*." Bloomington, IL, February 22, 2003.
- Statewide Teleconference for UI Extension Educators and other Professionals on the topic of "*Infant Nutrition: Update on the Current Recommendations*." February 19, 2004.
- Presentation to University of Illinois Program Leaders on "*Multidisciplinary Health-Related Research in the Division of Nutritional Sciences*," Urbana, IL. January 10, 2005.
- College of ACES Faculty and Staff Development Series: "*Multivitamins: Single Nutrient Supplements or Good Diet? The Dilemma*." Urbana, IL. March 14, 2007.

- Montessori School of C-U. "Feeding Toddlers and Preschool-Aged Children: What, How Much, and How to be Successful?" Savoy, IL. April 13, 2010.

F. UNIVERSITY OF ILLINOIS

Department of Food Science & Human Nutrition (Formerly Division of Foods & Nutrition)

- Search Committee, M.S., R.D. 1994
- Search Committee, Assistant Professor of Human Nutrition. 1994
- Mentoring committee, Timothy Garrow, 1994-1999
- Graduate Programs Transition Committee Chair, 1995-96
- Advising Coordinator for undergraduate Human Nutrition curriculum, 1996-1999
- Departmental Faculty Advisory Committee (DFAC) alternate member, 1997-1999
- Mentoring committee Kelly Tappenden, 1997-2003
- Departmental Faculty Advisory Committee (DFAC), 1999-2003
- Search Committee, Nutritional Biochemist, 2000
- Search Committee, Teaching Associate, 2000
- Search Committee, Dept Head, 2000; 2001
- Mentoring committee, Manabu Nakamura, 2000-2006
- Search Committee, Assistant to the Head, 2001
- Promotion & Tenure, 2002-2004
- Faculty Grievance Committee, Chair, 2003-2006
- Search Committee, Obesity Position, 2004-2005
- Mentoring committee, Hong Chen, 2004-
- Awards Committee, 2004-2007
- Internal Dietetics Advisory Committee, 2006-
- Student Grievance Committee, Chair, 2007-2008
- Mentoring committee, Margarita Teran-Garcia, 2007-
- Promotion & Tenure, 2009-2012

Division of Nutritional Sciences

- Qualifying Examination Committee, 2010-2014. Chair, 2014
- Executive Committee, 2010-2013
- Kraft Professorship Selection Committee, Chair, 2010-2011

College of Agricultural Consumer & Environmental Sciences

- Selection Committee, 1992 College of Agriculture Junior and Senior Excellence in Research Awards
- Safety Committee, 1993-1997
- Search Committee, Assistant Professor of Human Development, 1994
- Interview Committee, JBT fellowship Applicants, 2004
- Food Science and Human Nutrition Subcommittee on Graduate Curricula, 1994-1995
- Graduate Educational Policy Committee, 1995-1999 (Chair 1997-98) (ad hoc since 1999)
- Animal Care Advisory Committee, 1996-2004
- Chair Selection Committee, *1999 College Faculty Awards for Excellence in Research*
- Administrative Committee, 1999 -
- Chair, Search Committee, Dept Head of Human and Community Development, 2001-2002
- Course Renumbering Committee, 2002-2003
- Search Committee for Associate Dean for Research, 2006
- Selection Committee, *2010 College of ACES Team Award for Excellence*
- Chair, Elections Committee, 2010
- Evaluation Committee for National Soybean Research Laboratory, 2010
- Selection Committee, *2011 College of ACES Paul A. Funk Recognition Award*
- Selection Committee, *2011 College of ACES Spitze Land-Grant Professorial Career Excellence Award*

College of Medicine

- Medical Scholars Program (MSP) Steering Committee, 1999-2000
- Committee on Research, 2007-present, Chair 2010-2011
- Selection Committee for Wolfe Endowed Scholarship, 2009

University of Illinois campus

- Graduate College Executive Committee, 2002-2004
- Chair, Search Committee, College of Applied Life Studies, 4 cross-college positions in Aging and Disability, 2002-2003 (***Search closed in January 2003 due to lack of funding to fill positions***)
- University Scholar Selection Committee, 2003
- University Scholar Selection Committee, Chair, Agricultural, Biological and Environmental Sciences Subcommittee, 2005
- Campus Translational Research Advisory Committee (CTRAC), 2004-2005
- Named and Endowed Appointments Committee, 2005-2009
- Graduate College, NRC Ranking Faculty Oversight Committee, 2006-2007
- Higher Learning Commission (HLC) of the North Central Association of Colleges and Schools Accreditation Committee. Member of the committee preparing the report on “Academic Excellence”, 2008-2010
- Division of Biomedical Sciences Planning Committee, 2008-2009
- Board of Managers, University of Illinois Research Park, 2011 (Appointed by the Board of Trustees)