

## CURRICULUM VITAE

### **Susan Elaine Carlson, Ph.D.**

#### **AJ Rice Professor of Nutrition**

Department of Dietetics and Nutrition  
The University of Kansas Medical Center  
3901 Rainbow Blvd.- MS 4013  
Kansas City, KS 66160

Phone: 913-588-5359 / Fax: 913- 588-8946

Email: [scarlson@kumc.edu](mailto:scarlson@kumc.edu)

<http://alliedhealth.kumc.edu/school/research/carlson/index.html>

### **EDUCATION AND TRAINING**

- 1966 USDI Student Research Trainee (Summers and Fall Semester)
- 1964-1966 Western Fish Nutrition Laboratory, Cook, Washington
- 1969 B.S.-Food and Nutrition, Washington State University, Pullman, Washington
- 1975: PhD - Major - Nutrition, Minor – Biochemistry, Physiology, Iowa State University, Ames, Iowa
- Research Associate 1970-74;
  - Graduate Dean Dissertation Award 1974-75.
  - Dissertation: *Influence of Meal Pattern and Dietary Fat onCholesterol Metabolism in Adult Rats Recovering from Undernutrition*
- 1975-1977 NIHLB Postdoctoral Fellow, Department of Pathology, University of Wisconsin, Madison, Wisconsin
- 1977-1978 American Heart Association, Wisconsin Affiliate, Postdoctoral Fellow, Department of Pathology, University of Wisconsin, Madison, Wisconsin
- 1978-1979 NIHLB Postdoctoral Fellow, Department of Pediatrics, University of South Florida, Tampa, Florida

### **PROFESSIONAL EXPERIENCE & UNIVERSITY APPOINTMENTS**

- 2008 - present AJ Rice Professor of Nutrition, University of Kansas Medical Center, Kansas City, Kansas; Affiliate Professor in Obstetrics and Gynecology, Univ. of Missouri-Kansas City, School of Medicine
- 1999 - 2008 Midwest Dairy Council Professor of Nutrition, School of Allied Health (Dept. of Dietetics and Nutrition), School of Medicine (Dept. of Pediatrics) and School of Nursing, University of Kansas Medical Center, Kansas City, Kansas; Affiliate Professor in Obstetrics and Gynecology, Univ. of Missouri-Kansas City, School of Medicine
- 1997-1999 Professor, Schools of Nursing and Medicine (appointments in Pediatrics / Neonatology and Ob-Gyn), University of Missouri-KC, Kansas City, Missouri (UMKC Doctoral Faculty, April 1998).
- 1995-1997 Professor, Departments of Pediatrics, Obstetrics and Gynecology, and Biochemistry, The University of Tennessee, Memphis, Memphis, TN
- 1988-1997 Associate Professor, Clinical Nutrition Program, Department of Consumer Science and Education, College of Education, University of Memphis (formerly Memphis State University), Memphis, TN

1986-1995 Associate Professor, Departments of Pediatrics, Obstetrics and Gynecology, and Biochemistry, The University of Tennessee, Memphis, Memphis, TN

1984-1986 Assistant Professor, Department of Biochemistry, University of Mississippi Medical Center, Jackson, Mississippi

1983-1986 Assistant Professor, Division of Newborn Medicine, Department of Pediatrics, University of Mississippi Medical Center, Jackson, Mississippi

1980-1983 Assistant Professor, Department of Pediatrics, University of South Florida, Tampa, Florida

1979-1980 Assistant in Research (Faculty), Department of Pediatrics, University of South Florida, Tampa, Florida

## **PROFESSIONAL SOCIETIES AND EDITORIAL BOARDS**

American Society for Clinical Nutrition, 1984 – 2006 (was merged with the American Nutrition Society in that year); Elections Committee, 1993; Publications, Management Committee, 1999-2002, Consulting Editor for American Journal of Clinical Nutrition, 2005-2010

American Society for Nutrition (formerly American Institute of Nutrition), 1984 – Present (Chairman: FASEB Mini-symposium, "Maternal Nutrition/Lactation," 1991; Chairman: FASEB Mini-symposium, "Infant Nutrition and Development," 1991; Chairman FASEB Mini-symposium: Maternal and Infant Nutrition, 1996; Chairman FASEB Mini-symposium on Methyl Donors, Iodine and DHA – Is Maternal Supplementation Beneficial?, 2008.

Southern Society for Pediatric Research, 1989-1997

European Journal of Lipid Science and Technology Editorial Board, 2009-2013

International Society for Research on Human Milk and Lactation, 1989 – Present

American Oil Chemists Society, 1991- 2006 (Committee to Select Editor-in-Chief of Lipids, 1994), Member of Health and Nutrition Subsection, Member of Phospholipid Subsection (President, 2003-2005; Vice President 2001-2003, Secretary 1999-2001, Treasurer, 2001, symposium on Phospholipids in Nutrition for 2001 Annual Meeting, Workshop on Maternal and Infant LCPUFA for 2003 Annual Meeting)

International Society for the Study of Fatty Acids and Lipids (Charter member), 1993 – Present. Board member 2004-present, Local organizer for the 2008 International Meeting in Kansas City, MO (May 17-22). President-elect (2009-2012)

American Pediatric Society, 1996 – Present; Reviewed for Annual Society Research Meetings 2001 Pediatric Academic Societies Annual Meeting

Sigma Xi, 1974 - 2008

Phi Kappa Phi, 1974 – Present

American College of Nutrition, 2000-2004

Clinical Nutrition & Obesity *eSection* of MedGenMed Journal

## **SPECIAL PROFESSIONAL RESPONSIBILITIES AND HONORS**

Co-Chairman: Growth and Development in Infants, Second International Conference on the Health Effects of Omega-3 Polyunsaturated Fatty Acids in Seafoods, 1990

Plenary Lecture: Third Joint Meeting of the American and European Societies for Pediatric Gastroenterology and Nutrition, 1990

Plenary Lecture/Scientific Advisory Board: Norwegian Academy of Science and Letters: Omega-3 Fatty Acids: Metabolism and Biological Effects, 1992

Invited Lecturer: Fiftieth Anniversary of the Norwegian Council on Nutrition, Oslo, Norway, August 29, 1996

Member organizing committee for "PUFA in Infant Nutrition: Consensus and Controversies, American Oil Chemists' Society, Barcelona, Spain, November 7-9, 1996  
PUFA in Maternal and Child Health, Co-organizer with Drs. Bert Koletzko, Robert Gibson, Ricardo Uauy, Tom Clandinin, American Oil Chemist's Society, Kansas City, MO, Sept 10-13, 2000.  
Honorary Member American Dietetic Association for pioneering work in the role of DHA in infant development, November 2002  
Organizer: Workshop on Harmonization of Infant Outcomes in Response to Variations in DHA status, Kansas City, KS, November 2002.  
Member organizing committee for AOCS Maternal and Infant LCPUFA Workshop , Kansas City, MO, May 2003  
Institute of Medicine/NRC Committee on Nutrient Relationships in Seafood, 2005-2006.  
Local Organizer for ISSFAL 2008 biennial meeting (Theme: From Lipidomics to Human Health) in Kansas City, MO, May 17-22, 2008.  
March of Dimes Agnes Higgins Award for outstanding achievement in the field of maternal-fetal nutrition, 2008

## **UNIVERSITY COMMITTEES AND OFFICES**

Member, Committee on Undergraduate Education, The University of Tennessee, Memphis, 1991-1997  
Member, Clinical Research Center Scientific Advisory Committee, The University of Tennessee, Memphis, 1992-1997  
Member, Faculty Senate, Dept Pediatrics, The University of Tennessee, Memphis, 1994-1997  
Faculty Senate Executive Committee representing College of Medicine, The University of Tennessee, Memphis, 1994-1997  
Member, Institutional Review Board, Le Bonheur Children's Medical Center, 1995-1997  
Member, Search Committee for Associate Vice Chancellor for Development, The University of Tennessee, 1995  
Member, Search Committee for Executive Vice Chancellor, The University of Tennessee, 1996  
Member, College of Medicine, Dean's Advisory Committee, 1996-1997  
Member, Institutional Biosafety Committee, University of Missouri-Kansas City, 1997 – Present  
Member, UMKC Pediatric Institutional Review Board (Childrens' Mercy Hospital), 1999  
Member, KUMC Faculty Affairs Research Committee (FARC), 2000-2003.  
Committee reviewer for KUMC Research awards 2001 for Hall Foundation Collaborative Grants from Children's Mercy Hospital and KUMC, 2001.  
Member KUMC Human Subjects Committee 2001 to 2007  
Member KUMRI Advisory Committee, 2003 – 2004  
Member Faculty Assembly Steering Committee, 2005-2008; reelected 2008-2011  
Member Faculty Assembly Resources and Planning Committee, 2005-2008

## **SCHOOL AND DEPARTMENT COMMITTEES AND OFFICES**

Member, Interdisciplinary Committee, School of Allied Health, 2000-Present  
Member, Diversity Committee, School of Allied Health, 2000 (Participated in 7th Annual Regents' Michael Tilford Conference on Diversity and Multiculturalism, Oct. 26-27, 2000).  
Member, KUMC Faculty Affairs Research Committee (FARC), Kansas City, KS 2000-2003  
Committee Reviewer for KUMC Research Awards 2001 for Hall Foundation Collaborative Grants for Children's Mercy Hospital and KUMC, 2001.

Member, KUMC Human Subjects Committee, 2001 to present  
Member KUMRI Advisory committee, 2003-2004 (work completed in 2004)  
Member, Search for D&N Chairperson, School of Allied Health, 2003; Chair, D&N Faculty Search, 2005  
Member Faculty Assembly Steering Committee, 2005-2008; re-elected 2008-2010 term; Chair 2008-2010.  
Member, School of Allied Research Committee, 2005-2008; Chair 2007-2008.  
Member Faculty Assembly Resources and Planning Committee, 2005-2008  
Member EVC Budeget Advisory Committee representation faculty governance, Spring 2009

**EXTRAMURAL RESEARCH SUPPORT** (*PI, except where noted (\*), direct costs; excludes postdoctoral training awards*):

Infant Diets and Structural and Transport Lipids, March of Dimes Birth Defects Foundation April 1, 1981 - March 31, 1984, \$47,000  
Infant Diets and Structural and Transport Lipids, National Institutes of Heart Lung and Blood January 1, 1982 - December 31, 1984, \$112,238  
BRSG Grants, University of South Florida College of Medicine, \$5,000  
University of Mississippi Medical Center, \$5,000 Docosahexaenoic Acid Supplementation of Preterm, Formula-fed Infants, Ross Laboratories Sept 1, 1985 - Aug 31, 1986, \$30,000  
Short- and Long-term Responses to Feeding Omega-3 Fatty Acid Supplemented Formula to Premature Infants, Ross Laboratories, January 1, 1987 - December 31, 1989, \$265,567  
The Role of Dietary N-3 Fatty Acids in Premature Infants, National Institutes of Health (National Eye Institute, R01 EY08770), January 1, 1990 - December 31, 1993, \$335,121  
Interaction Between Docosahexaenoate, Eicosapentaenoate, and Retinol Status on Red Blood Cell, Plasma and Tracheal Aspirate Phospholipids, Fatty Acid Composition, and Eicosanoid Metabolism in Hospitalized Preterm Infants, Ross Laboratories, January 1, 1990 - December 31, 1991, \$225,000  
Role of Very Long Chain n-6 Supplementation With and Without n-3 Supplementation in Growth and Development of Preterm Infants, Ross Laboratories, July 1, 1992 – June 30, 2000, \$420,000  
The Role of Dietary N-3 Fatty Acids in Premature Infants, National Institutes of Health (National Institute of Child Health and Human Development, RO1 HD1329), September 1, 1993 – August 31, 1998, \$427,442  
Role of Specific Fatty Acids in Term Formula on Physical and Mental Development Mead Johnson Nutritional Group, September 1, 1995 - December 1, 1996, \$100,000  
Last Trimester DHA Supplementation Using DHA-Enriched Eggs, OmegaTech, Inc., Boulder, CO, June 1 - December 31, 1996, \$28,000  
Last Trimester DHA Supplementation: Effect on Pregnancy Outcome, OmegaTech, Inc., Boulder, CO, July 1, 1998 – August 31, 2001, \$316,132  
Birth DHA Status and Effects on Infant Attention (Co-PI with John Colombo), OmegaTech, Inc. (purchased by Martek Biosciences), Boulder, CO, Jan. 1, 2001-Dec 31, 2003, \$242,335  
The effects of infant formula supplemented with long chain polyunsaturated fatty acids on visual and cognitive development in term infants. Mead Johnson Nutritionals, (Research Contract), ~\$700,000. August 2003 – March 2007.  
Models for studying individual components of human milk and relationships among those components as they relate to optimal formula. Mead Johnson Nutritionals (Research Contract), \$250,364, March 1, 2004-March 1, 2007

\*Levant (PI), Carlson (Co-investigator): Brain DHA, Dopamine, and Behavior: Roles in ADHD, NIH, \$405,000, 2004-2007

\*Levant (PI), Carlson (Co-I): Brain LC-PUFAS and Maternal Mental Health, NIH, \$325,000, 2004-2006.

Carlson (PI), Colombo (Co-I): DHA and Pregnancy Outcome, NICHD, \$1,630,537, April 2006-December 31, 2010

Carlson (PI), Colombo (Co-I): The effects of infant formula supplemented with long chain polyunsaturated fatty acids on visual and cognitive development in term infants between 2 and 6 years of age. Mead Johnson Nutritionals, (Research Contract). Funds awarded for 2005-2009 to follow infants studied to 18 mo under #14 above. \$1,037,450

Carlson (PI): Contract to enroll toddlers in a compliance study. \$176,580. July 2006-July 2007

Carlson (PI): Contract to enroll newborn infants in a study of diet & stool bacteria. \$100,000, July 07-July 08.

Gustafson (PI), Carlson (Co-I) and other Co-I's. Effect of DHA supplementation on fetal heart outcomes. \$150,000, NIH R21, 2009-2011.

## **TEACHING & MENTORSHIP**

### **Undergraduate courses**

Human Nutrition (3 credit), University of South Florida, College of Nursing, 1982

### **Graduate and Postgraduate**

Medical Students, 1978-1997, 8-16 hours/year (Medical Student Golden Apple Award, University of Tennessee, Memphis, College of Medicine, 1992); Nutrition in Medical Physiology, 2000- present, University of Kansas Medical Center and coordinator of nutrition in the Medicine, Pediatric, Obstetrics and Gynecology, Aging Clerkships (M-3), University of Kansas Medical Center.

Dr. Jinping Zhao, Sponsored as Visiting Scientist from China, May 2001 to October 2001.

Yearly lectures to Pediatric Residents and Neonatology Fellows, 1986-1997 (UT, Memphis) and 2000-present (KUMC)

Pediatric Grand Rounds, Newborn Center Research Seminars, Journal Club, 1978-1997

University-sponsored in-service and outreach education (1983-1986): Breast Feeding, Infant Nutrition, Formula Composition, Maternal Nutrition and Pregnancy Outcome

CME Courses (listed separately) under Visiting Professorships/Invited Lectures)

University of Memphis (formerly Memphis State University), Memphis, TN

DN 817 Seminar in Dietetics and Nutrition, Summer 2008, Spring 2009, Summer 2009, KUMC

### **Clinical Rotation and didactic lectures in Nutrition of the Preterm Infant for M.S., R.D. candidates:**

NICU 8 students (2 weeks) 1988-1989

NICU 8 students (2 weeks) 1989-1990

NICU 8 students (2 weeks) 1990-1991

NICU 8 students (2 weeks) 1991-1992

1993 – 1997, M.S., R.D. students did their clinical training with our NICU nutritionists and I participated as a lecturer.

University of Memphis -The University of Tennessee, Memphis, Internship for M.S., R.D.-

Clinical Service Supervisor in the Neonatal Intensive Care Unit

3 students (1 month) 1988-1989 3 students (1 month) 1989-1990

3 students (1 month) 1990-1991 3 students (1 month) 1991-1992

N 598 Supervised study, UMKC (1997-1999) and KUMC (2002)  
 N 555 Quantitative Methods in Nursing Research (taught with Dr. Steve Krantz), Winter 1999  
 Physiology/Pathophysiology of the Neonate, Guest lecturer on the Gastrointestinal System and  
 Metabolic and Endocrine Conditions (3 hrs)  
 N 490C Nutrition in Health and Disease, 3 credits, Summer 1999  
 KUMC, Nutrition lectures to Pediatric residents, 2000 (3 hrs)  
 KUMC, Guest lectures on nutrition in Critical Care Nursing and Research Methods, 2000 (2 hrs)

### **Mentorships**

Maithe Fowler: *Nutrition, the immune system and HIV disease*, Fall 1997  
 Richard Downing: *Mechanism of action of drugs provided for clinical depression*, Winter 1998  
 Joyce Headon: *Supplementation of pregnant women with LCPUFA*, Summer 1998  
 Pam Kepus: *Supplementation of pregnant women with LCPUFA*, Winter 1999  
 Joyce Headon: *Nutritional correlates of LBW and prematurity*, Winter 1999  
 Pam Kepus: *Pregnant women's recollection and understanding of recommendations from health professionals*, Summer 1999  
 Candace Rose: *Nutrition for preterm infants*, Fall 2002  
 Monique Fee: *Nutrition for preterm infants*, Fall 2006  
 Research Mentor: Summer 2001 for Lucas Meek, Kristin Wismer; Summer 2002 for Trevor Gaskill (received 1st place Medical Student award for student research, 2002-2003), Steven Kosa, Socheata Un; Summer 2003 for Mathew Humpert  
 American Society of Clinical Nutrition/American Medical Student Association Clinical Nutrition Internship Mentor: Summer 2001 for Lucas Meek, Charlotte Ransom, and Kristin Wismer; Summer 2002 for Trevor Gaskill; Summer 2003 for Leslie Ablard; Summer 2005 for Candace Rose (~10 were awarded nationally each year).

### **FELLOWS/GRADUATE STUDENTS TRAINED**

#### **Master of Science** (\*directed research):

1982 Nutrition and Food Science Jane Carver Putnam\* - Florida State University  
 1986 Nursing Edith E. Anderson - University of Mississippi Medical Center  
 1989 Nutrition Diane E. Free\* - Memphis State University  
 1990 Nutrition Michelle R. Smith\* - Memphis State University  
 1991 Nutrition Lisa C. Denny\* - Memphis State University  
 1992 Nutrition Shannon Maxwell\* - Memphis State University  
 1996 Nutrition Tracy Sargent\* - The University of Memphis (formerly MSU)  
 1997 Nutrition Wendy E. Donley\* - The University of Memphis  
 2000 Dietetics and Nutrition Jennifer Colling, RD\* - University of Kansas Medical Center  
 2001 Dietetics and Nutrition, Amanda Schraegle, RD\* and Miranda Gaskin, RD\* - University of Kansas Medical Center  
 2002 Dietetics and Nutrition Jamie Wilkins, RD\* - University of Kansas Medical Center  
 2002 Dietetics and Nutrition Amy Marra, RD\* - University of Kansas Medical Center  
 2002 Dietetics and Nutrition Diana Rodernberg, \* - University of Kansas Medical Center  
 2004 Dietetics and Nutrition (nonthesis) Kasy Carter, RD- University of Kansas Medical Center  
 Candice Jorgensen, RD\*  
 2004 Dietetics and Nutrition Danielle Mercer, RD\*, Anna Stuckey, RD\* - University of Kansas Medical Center  
 2005 Dietetics and Nutrition, Stella Vergara\* - University of Kansas Medical Center

- 2008 Dietetics and Nutrition Bhavana Gottipati\*, Elizabeth Kerling, RD\*- University of Kansas Medical Center
- 2009 Dietetics and Nutrition – Lara Kunz, RD and Susan Kary - University of Kansas Medical Center

#### **Doctor of Philosophy Dissertation Committees (\*directed research)**

- 1992 Physiology , Bobbie L. Henken - The University of Tennessee, Memphis
- 1994 Nursing, - Rose Nealis\* - University of Texas, Austin, Texas
- 1995 Physiology, Ali Banan -The University of Tennessee, Memphis, Tenn.
- 1996 Nutrition, Department of Human Biology, Margret Foreman- University of Maastricht, The Netherlands van Drongelen (external examiner)
- 2002 Institute for Nutrition Research, University of Oslo Ingrid - B. Helland (external examiner)
- 2006 Dept of Food Science Annalien Dalton, Stellenbosch University (external examiner)  
Discipline of Paediatrics, University of Adelaide - Lisa Smithers, (external examiner)
- 2007 Institute for Nutrition Research, Univ of Oslo - Christine Henriksen, (external examiner)
- 2008 University of Amsterdam, The Netherlands - Manon van Eijdsden, (external examiner)
- 2009 University of Iceland, Reykjavik – Anna ragna Magnusardottir, (external examiner)

#### **Fellows and Assistant Professors Trained/Mentored**

- 1989 –1991 Tara Burnette, M.D., Neonatology, Univ. of Tennessee, Memphis, TN
- 1994 -1995 Sujatha Rajaram, Ph.D., Nutrition at Purdue University (Major Professor: Connie Weaver)
- 1998 – 1999 Marius Smuts, Ph.D., Biochemistry at University of Stellenbosch 1996 (Major Professor: KJ Kirsten)
- 1998 – 2001 Minzhao Huang, Ph.D., Pharmaceutical Science at Nagoya City University (Major Professor: Harumi Okuyama, Ph.D.)
- 2002-2005 Shashi Kundurthi, Ph.D.
- 2004-2005 Cheryl Miller, Ph.D. (Res. Asst. Prof., Dept. of Dietetics and Nutrition)
- 2005-2008 Carol Cheatham, Ph.D. (Res. Asst. Prof. Dept. of Dietetics and Nutrition)
- 2005- 2008 Ann McGrath Davis, Ph.D. (Dept. of Pediatrics), K21 Mentor
- 2006-2008 Andrea Charbonneau Ely, M.D. (Internal Medicine), K21 Mentor
- 2005-2008 Ann Manzardo, Ph.D. (Dept. of Psychiatry), Consultant for K21 project
- 2006-2008 Nicole Nollen, Ph.D. (Dept. Preventive Medicine), primary mentor BIRCWH Award

#### **PATENT APPLICATIONS**

- Patent No. US 6,080,787, February 12, 2000: Methods and Compositions for Reducing the Incidence of Necrotizing Enterocolitis: S.E. Carlson, D.L. Ponder, M.B. Montalto, M.H. Dohnalek, J.D. Benson, D.A. Borrer, D.V. Diodato.
- Patent No. US 6,306,908, Oct. 23, 2001: Methods for Reducing the Incidence of Necrotizing Enterocolitis: SE Carlson, DL Ponder, MB Montalto, MH Dohnalek, JD Benson, DA Borrer, DV Diodato.
- US Patent Application (Attorney Docket 50625-0021), June 24, 2003: Nutritional Supplement: SE Carlson (withdrawn)

## PANEL REVIEWER

U.S. Department of Agriculture - Human Nutrition, 1990 NIH: RFA-91-HD-10: Effect of Specific Components of Human Milk on the Nursling, 1991  
U.S. Department of Agriculture - Peer review panelist for the Office of Scientific Quality Review (OSQR): ARS Project plans in National Program 107 Human Nutrition "Life Stage Nutrition and Metabolism, Beltsville, MD, November 3-4, 2008.

## CONSULTANT ACTIVITIES

Wyeth-Ayerst	International Life Sciences Institute
Hoffman La Roche	Child Health Foundation
Bristol Myers, Mead Johnson Nutritionals	US Health Connect 2004
Scientific Therapeutics Information, Inc	

**REVIEWER** (ad hoc unless noted otherwise): Review ~40 manuscripts/year for pediatric and nutrition journals

*American Journal of Clinical Nutrition (Consulting Editor)*  
*Clinical Nutrition and Obesity (Editorial Board)*  
*Update on Pediatrics (Editorial Board)*  
*Journal of Nutrition*  
*European Journal of Clinical Nutrition*  
*American Society for Parenteral and Enteral Nutrition*  
*Journal of Pediatric Gastroenterology and Nutrition*  
*Lipids*  
*Journal of Lipid Research*  
*Proceedings of the Society for Experimental Biology and Medicine*  
*Journal of Pediatrics*  
*Pediatric Research*  
*Pediatrics*  
*Acta Paediatrica Scandinavica*  
*National Academy of Sciences*  
*New England Journal of Medicine*  
*New York Academy of Sciences*  
*World Health Organization*  
*National Science Foundation*  
*Journal of Comparative Physiology*  
*Journal of Human Lactation*  
*Nutritional Neuroscience*

## PUBLICATIONS

### Book Chapters / Invited Articles

Curran JS, Carlson SE, Barness LA: Protein and energy requirements of full-term and low-birth-weight infants. In Lebenthal E (ed.), Textbook of Gastroenterology and Nutrition in Infancy, New York, Raven Press, 1981, pp 265-274.  
Carlson SE, Barness LA: Macronutrient requirements for growth. In Walker A, Watkins J (eds.), Nutrition in Pediatrics--Basic Science and Clinical Aspects, Boston, Little Brown, 1985, pp 3-15

- Carlson SE: Human milk non-protein nitrogen: Occurrence and possible functions. *Advances in Pediatrics* 32, 1985, pp 43-70.
- Carlson SE: Breastfeeding and lipid metabolism. In *The Breast-fed Infant: A Model for Performance*, 91st Ross Conference, 1986, pp 154-161.
- Carlson SE, Rhodes PG: Docosahexaenoic acid status in infants: Effects of diet and supplementation. In Lands WEM (ed.), *Proceedings of the AOCS Short Course on Polyunsaturated Fatty Acids and Eicosanoids*, Champaign, IL, American Oil Chemists Society, 1987, pp 491-494.
- Carlson SE: Docosahexaenoic acid in mammalian development. In *Infant Nutrition, Development and Disease*, Mead Johnson Symposium on Perinatal and Developmental Medicine, No. 31, Evansville, IN, Mead Johnson and Company, 1989, pp 26-31.
- Carlson SE: Polyunsaturated fatty acids and infant nutrition. In Galli C, Simopoulos AP (eds.), *Dietary Omega 3 and Omega 6 Fatty Acids: Biological Effects and Nutritional Essentiality*, New York, Plenum Publishing, 1989, pp 147-158.
- Burghen GA, Carlson SE: Nutrition and nutritional disturbances. In Summitt RL (ed.), *Comprehensive Pediatrics*, St. Louis, The C. V. Mosby Company, 1990, pp 150-168.
- Carlson SE, Salem N: Essentiality of omega-3 fatty acids in growth and development of infants. In Simopoulos AP, Kifer RR, Martin RE, Barlow SM (eds.), *Health Effects of Omega-3 Polyunsaturated Fatty Acids in Seafoods*, World Review of Nutrition and Dietetics, Volume 66, Basel, Switzerland, Karger Publishing Press, 1991, pp 74-86.
- Carlson SE: Plasma cholesterol and lipoprotein levels during fetal development and infancy. In Williams CL, Wynder EL (eds.), *Annals of the New York Academy of Sciences: Hyperlipidemia in Childhood and the Development of Atherosclerosis*, Volume 623, New York, New York Academy of Sciences, 1991, pp 81-90.
- Carlson SE: Are n-3 polyunsaturated fatty acids essential for growth and development? In Nelson G (ed.), *Proceedings of the AOCS Short Course on Health Effects of Dietary Fatty Acids*, Champaign, IL, American Oil Chemists' Society, 1991, pp 42-49.
- Carlson SE: Very long chain fatty acids in the developing retina and brain. In Polin R, Fox W (eds.), *Fetal and Neonatal Physiology*, Philadelphia, W. B. Saunders Co, 1991, p. 341-346
- Carlson SE, Werkman SH, Peeples JM, Cooke RJ, Wilson WM III: Plasma phospholipid arachidonic acid and growth and development of preterm infants. In Koletzko B, Okken A, Rey J, Salle B, Van Biervliet JP (eds.), *Recent Advances in Infant Feeding*, Stuttgart-New York, Georg Thieme Verlag, 1992, p 22-27.
- Carlson SE, Cooke RJ, Peeples JM, Werkman SH, Tolley EA: Docosahexaenoate (DHA) and eicosapentaenoate (EPA) supplementation of preterm (PT) infants: Effects on RBC and plasma n-3 and visual acuity. In Ghisolfi J, Putet G (eds.), *Essential Fatty Acids and Infant Nutrition*, Proceedings of the International Symposium, Paris, John Libbey Eurotext, 1992, p.111-118.
- Carlson SE, Werkman SH, Peeples JM, Cooke RJ, Tolley EA, Wilson WM III: Growth and development of very low-birthweight infants in relation to n-3 and n-6 essential fatty acid status. In Sinclair A, Gibson R (eds.), *Essential Fatty Acids and Eicosanoids*, Champaign, IL, AOCS Press, 1993, pp 192-196.
- Carlson SE, Werkman SH, Peeples JM, Cooke RJ, Koo WWK, Tolley EA: The effect of marine oil-supplemented formulas with and without eicosapentaenoic acid on the n-3 and n-6 fatty acid status and growth of premature infants. In Yasugi T, Nakamura H, Soma M (eds.), *Advances in Polyunsaturated Fatty Acid Research*, New York, Excerpta Medica, 1993, pp 261-264.
- Rose J, Gibbons K, Carlson SE, Koo WWK: Nutrient needs of the preterm infant. *Nutrition in Clinical Practice* 8:226-232, 1993.

- Carlson SE: Lipid requirements of very low birth weight infants for optimal growth and development. In Dobbing J, Benson JD (eds.), *Lipids, Learning and the Brain: Fats in Infant Formulas*, Report of the 103rd Ross Conference on Pediatric Research, Columbus, OH, Ross Laboratories, 1993, pp 188-214.
- Jensen RG, Bitman J, Carlson SE, Couch SC, Hamosh M, Newburg DS: Human milk lipids. In *The Handbook of Milk Composition*, New York, Academic Press, 1994.
- Carlson SE, Werkman SH, Peeples JM, Wilson WM III: Growth and development of premature infants in relation to n-3 and n-6 fatty acid status. In Galli C, Simopoulos AP, Tremoli E (eds.), *Fatty Acids and Lipids: Biological Aspects*, World Review of Nutrition and Dietetics, Volume 75, Basel, Switzerland, S. Karger, 1994, pp 63-69.
- Craig-Schmidt MC, Carlson SE, Crocker L, Sibai BM: Plasma total phospholipid arachidonic acid and eicosapentaenoic acid in normal and hypertensive pregnancy. In Galli C, Simopoulos AP, Tremoli E (eds.), *Fatty Acids and Lipids: Biological Aspects*, World Review of Nutrition and Dietetics, Volume 76, Basel, Switzerland, S. Karger, 1994, pp 126-129.
- Carlson SE, Koo WWK, Werkman SH: Omega-3 and omega-6 supplementation of infants: Biochemistry, visual development and growth. In *Proceedings of the Scientific Conference on Omega-3 Fatty Acids in Nutrition, Vascular Biology and Medicine*, Dallas, TX, American Heart Association, 1995, pp 47-59.
- Carlson SE: The role of PUFA in infant nutrition. *INFORM* 6(8):940-946, 1995
- Carlson SE: Perceptual and cognitive function: Methods of assessment and relation to LCPUFA status during infancy. In Carlson SE, Neuringer M, Reisbick S, *Assessment of Visual and Cognitive Function in Relation to Long Chain Polyunsaturated Fatty Acids*, Basel, Switzerland, Hoffmann-La Roche, 1996, pp 49-69.
- Carlson SE: A common sense approach to dietary lipids in infancy and childhood. *International Seminars in Paediatric Gastroenterology and Nutrition*, Vol. 5, 1996.
- Carlson SE, Barness LA: Macronutrient requirements for growth. In Walker A, Watkins J (eds.), *Nutrition in Pediatrics--Basic Science and Clinical Aspects*, Hamilton, Ontario, B. C. Decker, 1997, pp 81-90.
- Carlson SE: Long-chain polyunsaturated fatty acid supplementation of preterm infants. In Dobbing J (ed.), *Developing Brain and Behavior: The role of Lipids in Infant Formula*, London, Academic Press Limited, 1997, pp. 41-102.
- Carlson SE: Long chain polyunsaturated fatty acids in infants and children. *Basel, Switzerland, Annales Nestle*, 1997;55:52-62.
- Carlson SE: Very long chain fatty acids in the developing retina and brain. In Polin R, Fox W (eds.), *Fetal and Neonatal Physiology*, 2nd ed., Philadelphia, W. B. Saunders Company, 1998, pp. 504-514.
- Forsyth JS, Carlson SE: Long-chain polyunsaturated fatty acids in infant nutrition: Effects on infant development. *Curr Opin Clin Nutr Metab Care* 2001; 4:1-4.
- Carlson SE: Long chain polyunsaturated fatty acid metabolism and possible implications for pre-term infants. *Neonatal Nutrition*, ed. Richard Cooke. *Seminars in Perinatology*, 2001; 6: 437-449.
- Sullivan D and Carlson SE: Fats for children. *Pediatr Ann* 2001; 30:683-693
- Un S, Carlson SE: Very long chain fatty acids in the developing retina and brain. In Polin R, Fox W (eds.), *Fetal and Neonatal Physiology*, 2nd ed., Philadelphia, W. B. Saunders Company, 2003.
- Carlson SE. Postdischarge nutrition of preterm infants. In *Nutrition Needs of the Preterm infants: Scientific and Practical Guidelines* (Ed: Tsang RC, et al.), Williams and Watkins, 2005.

Cheatham C, Colombo J, Carlson SE: Very long chain fatty acids in the developing retina and brain. In Polin R, Fox W (eds.), *Fetal and Neonatal Physiology*, 3rd ed., Philadelphia, W. B. Saunders Company, 2009, in press.

### **Peer-Reviewed and Invited Editorials**

Carlson SE, Goldfarb S: A sensitive enzymatic method for the determination of free and esterified tissue cholesterol. *Clinica Chimica Acta* 79:575-582, 1977.

Carlson SE, Shriver CN, Arnrich L: Dietary fat and cholesterol metabolism in adult rats undergoing rapid tissue repletion. *Journal of Nutrition* 108:1170-1179, 1978.

Carlson SE, Arnrich L: Influence of dietary lipids and meal pattern on body composition and lipogenesis in adult rats. *Journal of Nutrition* 108:1162-1169, 1978.

Carlson SE, Mitchell AD, Goldfarb S: Sex-related differences in diurnal activities and development of hepatic microsomal HMG-CoA reductase and cholesterol 7 $\alpha$ -hydroxylase activities. *Biochimica et Biophysica Acta* 531:115-124, 1978.

Mitchell AD, Carlson SE, McGibbon WH, Goldfarb S: Cholesterol metabolism in normal and restricted-ovulator chickens before and after sexual maturation. *Atherosclerosis* 32:11-21, 1979.

Carlson SE, Mitchell AD, Carter M, Goldfarb S: The effect of physiologic levels of circulating estrogens and early sex-imprinting on post-pubertal hepatic microsomal 3-hydroxy-3-methylglutaryl CoA reductase activity in male and female rats. *Biochimica et Biophysica Acta* 633:154-161, 1980.

Carlson SE, DeVoe PW, Barness LA: The effect of human milk and infant formulas with different polyunsaturated to saturated fat ratios on circulating high density lipoproteins. *Journal of Pediatric Gastroenterology and Nutrition* 1:303-309, 1982.

Putnam J, Carlson S, DeVoe P, Barness L: The effect of variations in dietary fatty acids on the fatty acid composition of erythrocyte phosphatidylcholine and phosphatidylethanolamine in human infants. *Am J Clin Nutr* 36:106-114, 1982.

Carlson SE. N-acetylneuraminic acid concentrations in human milk oligosaccharides and glycoproteins during lactation. *Am J Clin Nutr* 41:720-726, 1985.

Carlson SE, House SG: Oral and intraperitoneal administration of N-acetylneuraminic acid: Effect on rat cerebral and cerebellar N-acetylneuraminic acid. *J Nutr* 116:881-886, 1986.

Carlson SE, Carver JD, House SG: High fat diets varying in ratios of polyunsaturated to saturated fat and linolenic acid: A comparison of rat neural and red cell membrane phospholipid. *J Nut* 116:718-725, 1986.

Carlson SE, Rhodes PG, Ferguson MG: Docosahexaenoic acid status of preterm infants at birth and following feeding with human milk or formula. *Am J Clin Nutr* 44:798-804, 1986.

Carlson S, Rhodes P, Rao V, Goldgar D: Effect of fish oil supplementation on the omega-3 fatty acid content of red blood cell membranes in preterm infants. *Pediatric Res* 21:507-510, 1987.

Liu C-CF, Carlson SE, Rhodes PG, Rao V, Meydrech EF: Increase in plasma phospholipid docosahexaenoic and eicosapentaenoic acids as a reflection of their intake and mode of administration. *Pediatric Res* 22:292-296, 1987.

Caldwell EJ, Carlson SE, Palmer SM, Rhodes PG: Histamine and ascorbic acid: A survey of women in labor at term and significantly before term. *International Journal of Vitamin and Nutrition Research* 58:319-325, 1988.

Peebles JM, Carlson SE, Werkman SH, Cooke RJ: Vitamin A status of preterm infants during infancy. *American Journal of Clinical Nutrition* 53:1455-1459, 1991.

Rhodes PG, Reddy NS, Downing G, Carlson SE: Effects of different levels of intravenous  $\alpha$ -linolenic acid and supplemental breast milk on red blood cell docosahexaenoic acid in very low birth-weight infants. *Journal of Pediatric Gastroenterology and Nutrition* 13:67-71, 1991.

- Carlson SE, Cooke RJ, Rhodes PG, Peeples JM, Werkman SH, Tolley EA: Long-term feeding of formulas high in linolenic acid and marine oil to very low birth weight infants: Phospholipid fatty acids. *Pediatric Research* 30(5):404-412, 1991.
- Carlson SE, Cooke RJ, Rhodes PG, Peeples JM, Werkman SH: Effect of vegetable and marine oils in preterm infant formulas on blood arachidonic and docosahexaenoic acids. *Journal of Pediatrics* 120(4):S159-S167, 1992.
- Carlson SE, Cooke RJ, Werkman SH, Tolley EA: First year growth of preterm infants fed standard compared to marine oil n-3 supplemented formula. *Lipids* 27:901-907, 1992.
- Carlson SE, Werkman SH, Peeples JM, Cooke RJ, Tolley EA: Arachidonic acid status correlates with first year growth in preterm infants. *Proceedings of the National Academy of Sciences* 90:1073-1077, 1993.
- Carlson SE, Werkman SH, Rhodes PG, Tolley EA: Visual acuity development in healthy preterm infants: Effect of marine oil supplementation. *Am J Clin Nutr* 58:35-42, 1993.
- Werkman SH, Peeples JM, Cooke RJ, Tolley EA, Carlson SE: Effect of vitamin A supplementation of intravenous lipids on early vitamin A intake and status of premature infants. *Am J Clin Nutr* 59:586-592, 1994.
- Carlson SE, Werkman SH, Peeples JM, Wilson WM III: Long chain fatty acids and early visual and cognitive development of preterm infants. *European Journal of Clinical Nutrition* 48:S27-S30, 1994.
- Carlson SE: Lessons learned from randomizing infants to marine oil-supplemented formulas in nutrition trials. *Journal of Pediatrics* 125:S33-S38, 1994.
- Carlson SE, Peeples JM, Werkman SH, Koo WWK: Plasma retinol and retinol binding protein concentrations in premature infants fed preterm formula past hospital discharge. *European Journal of Clinical Nutrition* 49:134-136, 1995.
- Rajaram S, Carlson SE, Koo WWK, Kelly DP, Rangachari A: Insulin-like growth factor (IGF)-I and IGF-binding protein 3 during the first year in term and preterm infants. *Pediatric Research* 37(5):581-585, 1995.
- Rajaram S, Carlson SE, Koo WWK, Braselton EW: Plasma mineral concentrations in preterm infants fed a nutrient-enriched formula after hospital discharge. *Journal of Pediatrics* 126:791-796, 1995.
- Werkman SH, Carlson SE: A randomized trial of visual attention of preterm infants fed docosahexaenoic acid until 9 months. *Lipids* 31(1):91-97, 1996.
- Carlson SE, Werkman SH: A randomized trial of visual attention of preterm infants fed docosahexaenoic acid until 2 months. *Lipids* 31(1):85-90, 1996.
- Carlson SE, Ford AJ, Werkman SH, Peeples JM, Koo WWK: Visual acuity and fatty acid status of term infants fed human milk and formula with and without docosahexaenoate and arachidonate from egg yolk lecithin. *Pediatric Research* 39:882-886, 1996.
- Carlson SE: Arachidonic acid status of human infants: Influence of gestational age at birth and diets with very long chain n-3 and n-6 fatty acids. *J Nutr* 126:1092S-1098S, 1996.
- Carlson SE, Werkman SH, Tolley EA: The effect of long chain n-3 fatty acid supplementation on visual acuity and growth of preterm infants with and without bronchopulmonary dysplasia. *Am J Clin Nutr* 63:687-697, 1996.
- Koo WWK, Walters J, Bush AJ, Chesney RW, Carlson SE: Dual energy x-ray absorptiometry studies of bone mineral status in newborn infants. *Journal of Bone and Mineral Research* 11(7):997-1002, 1996.
- Kretchmer N, Beard JL, Carlson SE: The role of nutrition in the development of normal cognition. *American Journal of Clinical Nutrition* 63:997S-1001S, 1996.

- Carlson SE, Clandinin MT, Cook H, Emken EA, Filer LJ: Trans fatty acids: Infant and fetal development: Report of the Expert Panel on Trans Fatty Acids and Early Development. *American Journal of Clinical Nutrition* 66:1S-20S, 1997.
- Carlson SE: Invited editorial: Functional effects of increasing n-3 fatty acid intake. *Journal of Pediatrics* 131:173-175, 1997.
- Koo WWK, Bush AJ, Walters J, Carlson SE. Postnatal development of bone mineral status during infancy. *Journal of the American College of Nutrition* 17:65-70, 1998.
- Carlson S, Montalto M, Ponder D, Werkman S, Korones S. Lower necrotizing enterocolitis in infants fed a preterm formula with egg phospholipids. *Pediatr Res* 44:491-498, 1998.
- Carlson SE, Neuringer M. Polyunsaturated fatty acid status and neurodevelopment: A summary and critical analysis of the literature. *Lipids* 34:171-178, 1999.
- Carlson SE: Long chain polyunsaturated fatty acids and development of human infants. *Acta Paed Scand* 88:72-77, 1999.
- Carlson SE: Behavioral methods used in the study of long-chain polyunsaturated fatty acid nutrition in primate infants. *Am J Clin Nutr* 71 (suppl.):268S-274S, 2000.
- Tolley EA, Carlson SE: Considerations of statistical power in studies of visual development and DHA status. Invited editorial. *Am J Clin Nutr* 71:1-2, 2000.
- Carlson SE: Consumption of contaminated lake fish and reproduction. Invited editorial. *Epidemiology* 11:374-5, 2000
- Koletzko B, Agostoni C, Carlson SE, Clandinin T, Hornstra G, Neuringer M, Uauy R, Yamashiro Y, Willatts P. Long chain polyunsaturated fatty acids (LC-PUFA) and perinatal development (Report of Workshop sponsored by the Child Health Foundation), *Acta Paediatr Scandinavica* 90: 460-464, 2001.
- Lapillone A, Carlson SE: Polyunsaturated fatty acids and infant growth. *Lipids* 2001;36:901-911.
- Smuts CM, Huang M, Mundy D, Plasse T, Major S, Carlson SE: A randomized trial of docosahexaenoic acid supplementation during the third trimester of pregnancy. *Obstet Gynecol* 2003;101:469-479.
- Smuts CM, Peeples JM, Borod E, Carlson SE. High-docosahexaenoic acid eggs: Feasibility as a means to enhance mother and infant DHA status. *Lipids* 2003; 38:407-414.
- Levant B, Radel JD, Carlson SE. Decreased brain docosahexaenoic acid during development alters dopamine-related behaviors in adult rats that are differentially affected by dietary remediation. *Behav. Brain Res.* 2004; 152:49-57.
- Colombo J, Kannass KN, Shaddy DJ, Kundurthi S, Maikranz JM, Carlson SE. Maternal DHA and the development of attention in infancy and toddlerhood. *Child Development* 2004; 75:1254-1267.
- Gaines J, Berman N, Carlson SE. Reduced Brain Docosahexaenoic Acid During Development. In *Unraveling Lipid Metabolism with Microarrays and Metabolomics* (Berger A, Roberts M, eds). Marcel Dekker, 2004.
- Levant B, Crane JF, Carlson SE. Sub-chronic antipsychotic drug treatment does not alter brain phospholipid fatty acid composition in rats. *Prog Neuropsychopharmacol Biol Psychiatry* 2006; 30:728-732.
- Levant B, Radel JD, Carlson SE. Reduced brain DHA content after a single reproductive cycle in female rats fed a diet deficient in n-3 polyunsaturated fatty acids. *Biol Psych* 2006; 60:987-990.
- Cheatham C, Colombo J, Carlson SE. Omega-3 fatty acids and visual and cognitive function. *Am. J. Clin. Nutr.* 2006; 83:1458S-1466S.
- Levant B, Ozias MK, Carlson SE. Sex-specific effects of brain LC-PUFA composition on locomotor activity in rats. *Physiol Behavi* 2006; 89:196-204.

- Levant B, Ozias MK, Carlson SE. Diet (n-3) Polyunsaturated Fatty Acid Content and Parity Interact to Alter Maternal Rat Brain Phospholipid Fatty Acid Composition, *J. Nutr* 2006; 136:2236-2242.
- Levant B, Ozias MK, Jones, AK, Carlson SE. Differential Effects of Modulation of Brain Docosahexaenoic Acid Content During Development in Specific Regions of Rat Brain, *Lipids* 2006; 41:407-414.
- McNamara RK, Carlson SE. Role of omega-3 fatty acids in brain development and function: potential implications for the pathogenesis and prevention of psychopathology. *Prostaglandins Leukot Essent Fatty Acids* 2006; 75:329-349.
- Ozias MK, Carlson SE, Levant B. Maternal parity and diet (n-3) polyunsaturated fatty acid concentration influence accretion of brain phospholipid docosahexaenoic acid in developing rats. *J. Nutr.* 2007; 137:125-129.
- Levant B, Ozias MK, Carlson SE. Specific brain regions of female rats are differentially depleted of docosahexaenoic acid by reproductive activity and an (n-3) fatty acid-deficient diet. *J. Nutr.* 2007; 137:130-134.
- Kannass KN, Colombo C, Carlson SE. Maternal DHA levels and toddler free play attention. *Developmental Neuropsychology on Nutrients, Toxicants and Neurobehavioral Development*, in press.
- Gajewski BJ, Simon SD, Carlson SE. Predicting accrual in clinical trials with a Bayesian posterior predictive distribution, *Statistics in Medicine* 2008;27:2328-40.
- Aupperle RL, Denney DR, Lynch SG, Carlson SE, Sullivan DK. Omega-3 fatty acids and multiple sclerosis: Relationship to depression. *J Behav Med* 2008;31:127-35.
- Gustafson KM, Colombo J, Carlson SE. Prostaglandins, leukotrienes, and essential fatty acids. 2008; 79:135-40.
- Levant B, Ozias MK, Davis PF, Winter M, Russell KL, Carlson SE, Reed GA, McCarson KE. *Psychoneuroendocrinology* 2008;33:1279-92.
- Kannass KN, Colombo C, Carlson SE. Maternal DHA levels and toddler free play attention. *Developmental Neurophysch* 2009; 34:159-174.
- Carlson SE. Docosahexaenoic acid supplementation in pregnancy and lactation: A Review. *Amer J Clin Nutr* 2009;89:678S-84S.
- Carlson SE. Neonatal programming with regard to dietary lipids: A review and research agenda. *Amer J Clin Nutr* 2009 (in press)

#### **Abstracts Presented and Published (National and International) (PARTIAL LIST)**

- Carlson SE, Arnrich L: Influence of meal pattern and dietary fat on 4-14C-cholesterol metabolism in adult rats, presented before FASEB, Atlantic City, NJ, April 1975. *Federation Proceedings* 34:891(#3806), 1975.
- Carlson SE, Mitchell AD, Goldfarb S: Sex-related differences in hepatic cholesterol and bile acid metabolism, Poster presentation at Midwest AFCR, Chicago, IL, November 1977. *Gastroenterology* 73:17A, 1977.
- Carlson SE, Mitchell AD, Goldfarb S: Regulation of hepatic HMG-CoA reductase activity (HMG) in response to sex hormones in adult rats, Poster presentation at FASEB, Dallas, TX, April 1979. *Federation Proceedings* 38:1252(#5416), 1979.
- Carlson SE, DeVoe PW, Barness LA: The effects of human milk and infant formulas on circulating high density lipoprotein, Poster presentation at AAP/SPR, April 1981. *Pediatric Research* 15:528(#527), 1981.

- Carlson SE, Barness LA: Protein and energy requirements of term and preterm infants, presented before Second International Gastroenterology and Nutrition Meeting, Niagara Falls, Ontario, Canada, June 1982. *Journal of Pediatric Gastroenterology and Nutrition* 2:581-587, 1983.
- Carlson SE, Ferguson MG, Rhodes PG: Effect of human milk and vegetable oil-containing formulas on docosahexaenoic acid of preterm red cell membrane phospholipids, Poster presentation at the AAP/SPR, Washington, DC, May 1985. *Pediatric Research* 19:214A(#623), 1985.
- Carlson SE, Palmer SM, Caldwell EI, Rhodes PG: Folate status and length of gestation, Poster presentation at the American Society for Clinical Nutrition, Washington, DC, May 1985. *Amer J Clin Nutr* 41:844, 1985.
- Carlson SE, Rhodes PG: Effect of fish oil supplementation on docosahexaenoic acid content of preterm red blood cell membrane phospholipid, Poster presentation at AAP/SPR, Washington, DC, April 1986. *Pediatric Research* 20:293A (#815), 1986.
- Carlson SE, Rhodes PG, Rao V: Accumulation of docosahexaenoic and eicosapentaenoic acids in plasma lipids following fish oil administration to preterm infants, Poster presentation at the American Society for Clinical Nutrition, Washington, DC, May 1986. *Amer J Clin Nutr* 43:684, 1986.
- Carlson SE, Cooke RJ, Werkman SH, Peeples JM, Tolley EA: Red blood cell phosphatidylethanolamine docosahexaenoic acid is a predictor of visual acuity in preterm infants, presented before the Southern Society for Pediatric Research, New Orleans, LA, Feb. 2, 1989. *Clinical Research* 37(1):46A, 1989
- Cooke RJ, Werkman SH, Watson D, Conner C, Carlson SE: Effect of type of protein on growth and other parameters of nutritional status in the preterm infant, Poster presentation (R. Cooke) at the Southern Society for Pediatric Research, New Orleans, LA, Feb. 1, 1989. *Clinical Research* 37(1):46A, 1989.
- Peeples J, Carlson S, Cooke R, Werkman S: Long term supplementation of preterm infants with docosahexaenoate (DHA) and eicosapentaenoate (EPA): Effect of RBC phosphatidylethanolamine (PE) fatty acid composition, presented before FASEB (American Institute of Nutrition/American Society for Clinical Nutrition), New Orleans, LA, March 22, 1989. *FASEB Journal* 3(4):A1056 (#4822), 1989.
- Carlson S, Cooke R, Werkman S, Peeples J: Docosahexaenoate (DHA) and eicosapentaenoate (EPA) supplementation of preterm (PT) infants: Effects on phospholipid DHA and visual acuity, presented before FASEB (American Institute of Nutrition/American Society for Clinical Nutrition), New Orleans, LA, March 22, 1989. *FASEB Journal* 3(4):A1056 (#4823), 1989.
- Carlson SE, Cooke RJ, Peeples JM, Werkman SH, Tolley EA: Docosahexaenoate (DHA) and eicosapentaenoate (EPA) status of preterm infants: Relationship to visual acuity in n-3 supplemented and unsupplemented infants, presented before the Society for Pediatric Research, Washington, DC, May 4, 1989. *Pediatric Research* 25(4):285A (#1696), 1989.
- Carlson SE, Peeples JM, Werkman SH, Cooke RJ: Vitamin A status of preterm infants following discharge, presented before the Southern Society for Pediatric Research, New Orleans, LA, Jan. 18, 1990. *Clinical Research* 38(1):44A, 1990.
- Burnette TM, Carlson SE: Hypoxanthine metabolism and clinical outcome in the very low birth weight infant, presented (T. Burnette) before the Southern Society for Pediatric Research, New Orleans, LA, Jan. 18, 1990. *Clinical Research* 38(1):62A, 1990.

- Carlson SE, Peeples JM, Werkman SH, Cooke RJ, Wilson WM: Arachidonic acid (AA) in plasma and red blood cell (RBC) phospholipids (PL) during followup of preterm infants: Occurrence, dietary determinants and functional relationships, presented before the II International Conference on the Health Effects of Omega-3 Polyunsaturated Fatty Acids in Seafoods, Washington, DC, March 1990.
- Carlson SE, Werkman SH, Cooke RJ, Peeples JM, Tolley EA: Docosahexaenoate (DHA) and eicosapentaenoate (EPA) status of preterm infants: Relationship to the Fagan Test of Infant Intelligence and the Bayley Scale of Mental Development, presented before FASEB (American Institute of Nutrition/American Society for Clinical Nutrition), Washington, DC, April 4, 1990. *FASEB Journal* 4(3):A1156 (#5171), 1990.
- Burnette TM, Carlson SE, Tolley EA: Plasma xanthine levels are elevated prior to clinical necrotizing enterocolitis, presented (T. Burnette) before the Society for Pediatric Research, Anaheim, CA, May 10, 1990. *Pediatric Research* 27(4):101A(#594), 1990.
- Gupta I, Carlson SE, Peeples JM, Korones SB, Sibai BM: A survey of the effects of antenatal steroid administration upon plasma retinol and retinol binding protein in premature infants, presented (I. Gupta) before the Southern Society for Pediatric Research, New Orleans, LA, Jan. 31, 1991. *Clinical Research* 38(4):939A, 1990.
- Carlson SE, Peeples JM, Werkman SH, Cooke RJ, Wilson WM: Plasma phosphatidylcholine (PC) arachidonate (AA) concentrations of preterm (PT) infants during infancy: Growth and development, Poster presentation at FASEB (American Institute of Nutrition/American Society for Clinical Nutrition), Atlanta, GA, April 24, 1991. *FASEB Journal* 5(5):A1320(#5506), 1991.
- Cooke RJ, Carlson SE, Werkman SH, Peeples JM: Growth of premature infants in year one: Effect of marine oil supplementation of formula, presented before FASEB (American Institute of Nutrition/American Society for Clinical Nutrition), Atlanta, GA, April 23, 1991. *FASEB Journal* 5(5):A1072 (#4072), 1991.
- Werkman SH, Peeples JM, Carlson SE, Wilson WM, Cooke RJ: Vitamin A status at expected delivery and growth and developmental scores of preterm infants during year one, presented (S. Werkman) before FASEB (American Institute of Nutrition/American Society for Clinical Nutrition), Atlanta, GA, April 23, 1991. *FASEB Journal* 5(5):A1072(#4068), 1991.
- Carlson SE, Cooke RJ, Peeples JM, Werkman SH: Vitamin A status of very low birth weight (VLBW) infants maintained on preterm formula to 48 weeks postconception (PCA), presented before the Society for Pediatric Research, New Orleans, LA, May 2, 1991. *Pediatric Research* 29(4):292A (#1737), 1991.
- Koo W, Walters J, Massom L, Chesney R, Blake R, Carlson S: Effect of movement artifact on dual energy x-ray absorptiometry measurement in infants, Poster presentation at the Southern Society for Pediatric Research (W. Koo), New Orleans, LA, February 4, 1994. *Clinical Research* 41(4):735A, 1993.
- Rajaram S, Carlson S, Koo W, Braselton W: Plasma zinc (Zn) concentrations from birth to six months in term (T) and preterm (PT) infants, presented (S. Rajaram). FASEB (American Institute of Nutrition/American Society for Clinical Nutrition), Anaheim, CA, April 26, 1994. *FASEB Journal* 8(4):A460, 1994.
- Carlson SE, Wilson WW III: Docosahexaenoic acid (DHA) supplementation of preterm (PT) infants: Effect on the 12-month Bayley Mental Developmental Index (MDI), Poster presentation at the Society for Pediatric Research, Seattle, WA, May 2, 1994. *Pediatric Research* 35(4):20A (#104), 1994.
- Werkman SH, Carlson SE: The Fagan Test of Infant Intelligence (FTII) and visual attention during the FTII: Term and preterm infants fed term or preterm formula after hospital discharge, Poster presentation at the Society for Pediatric Research, Seattle, WA, May 2, 1994. *Pediatric Research* 35(4):28A (#156), 1994.

- Rajaram S, Stene MA, Kelly DP, Carlson SE: Plasma insulin-like growth factor-I (IGF-I) and IGF binding protein-3 (IGFBP-3) in term infants from birth to six months, Poster presentation at the Society for Pediatric Research, Seattle, WA, May 3, 1994. *Pediatric Research* 35(4):105A (#616), 1994.
- Walters J, Koo WWK, Massom L, Carlson SE: Dual energy x-ray absorptiometry-based spine bone mineral content: Comparison with whole body bone mineral content and normative data in newborn infants, presented before the American Society for Bone and Mineral Research, Kansas City, MO, September 10, 1994. *J Bone Mineral Research* 9(Suppl 1):S224, 1994.
- Koo WWK, Walters J, Massom L, Carlson SE: Dual energy x-ray absorptiometry-based bone mineral content (DXA-BMC): Influence of movement artifact and normative data in newborn infants, presented before the American Society for Bone and Mineral Research, Kansas City, MO, September 10, 1994. *Journal of Bone and Mineral Research* 9(Suppl 1):S349, 1994.
- Carlson SE, Werkman SH: Preterm infants fed formula with compared to without docosahexaenoic acid (DHA) have shorter look duration ten months after DHA is discontinued, Poster presentation at the Society for Pediatric Research, San Diego, CA, May 8, 1995. *Pediatric Research* 37(4):14A (#67), 1995.
- Koo W, Walters J, Carlson S: Postnatal changes in bone mineralization for infants born at term, presented (W. Koo) before the American Society for Bone Mineral Research 17th Annual Meeting, Baltimore, MD, Sept. 1995. *Journal of Bone Mineral Research* 10 (Suppl 1):S295.
- Koo W, Walters J, Carlson S: Delayed bone mineralization in preterm (PT) infants, presented (W. Koo) before the American Society for Bone and Mineral Research 17th Annual Meeting, Baltimore, MD, Sept. 1995. *Journal of Bone and Mineral Research* 10(Suppl 1):S296, 1995.
- Carlson SE: Early visual acuity does not correlate with later evidence of visual processing in preterm infants although each is improved by the addition of docosahexaenoic acid to infant formula, Poster presentation at the Second International Congress of the International Society for the Study of Fatty Acids and Lipids, Bethesda, MD, June 1995. *Congress Program and Abstracts* #53.
- Ayyagari A, Peeples JM, Carlson SE: Maternal trans fatty acid intake and trans fatty acids in plasma of mother-infant pairs, presented before Experimental Biology '96 (American Institute of Nutrition/American Society for Clinical Nutrition), Washington, DC, April 15, 1996. *FASEB Journal* 10(3):A190 (#1097), 1996.
- Carlson SE: Relationship of isomeric fatty acids in human cord blood to n3 and n6 status, Poster presentation at the Society for Pediatric Research, Washington, DC, May 9, 1996. *Pediatric Research* 39(4):304A (#1808), 1996.
- Koo W, Walters J, Carlson S: Postnatal development of body composition of preterm infants, Poster presentation (W. Koo) at the Society for Pediatric Research, Washington, DC, May 1996. *Pediatric Research* 39(4):223 A (#1320), 1996.
- Sargent TL, Smith MA, Carlson SE, Eck L, Yolton K: The role of nutrition in infant neurological development: Outcomes of the Bayley Scales of Infant Development of infants provided supplemental n-3 fatty acids, presented (T. Sargent) before the American Dietetic Association, Chicago, IL, October 25, 1996. *J Amer Dietet Assoc* 96(9):A-74, 1996.
- Peeples JM, Werkman SH, Desiderio DM, Carlson SE: Effect of LCPUFA and age on red blood cell sphingomyelin 24:1 n-9 and n-24:2 of preterm infants with reference to term infants, presented (J. Peeples) before PUFA in Infant Nutrition: Consensus and Controversies, Barcelona, Spain, November 7, 1996. *PUFA in Infant Nutrition: Consensus and Controversies Abstract Book*, 1996, p. 33.

- Werkman SH, Carlson SE: Novelty preference and look duration among term infants fed human milk or diets varying in n-3 and n-6 LCPUFA, presented (S. Werkman) before PUFA in Infant Nutrition: Consensus and Controversies, Barcelona, Spain, November 7, 1996. PUFA in Infant Nutrition: Consensus and Controversies Abstract Book, 1996, p. 41.
- Donley WE, Smith MA, Carlson SE, Eck L. Infant feeding practices during the weaning process of inner-city mothers who chose to formula feed, presented (MA Smith) before the American Dietetic Association, Boston, MA, October 29, 1997. J Amer Dietet Assoc 97: A-70, 1997.
- Carlson SE, Montalto MB, Korones SB. Necrotizing enterocolitis (NEC) in preterm (PT) infants fed formula with egg phospholipid (EPL) arachidonate (ARA) and docosahexaenoate (DHA) at the Society for Pediatric Research, New Orleans, LA, May 1998. Pediatric Research 43:99A, 1998.
- Borod E, Atkinson R, Barclay WR, Carlson SE. Effects of third trimester consumption of eggs high in DHA on DHA status and pregnancy. Lipids 34:S231, 1999.
- Carlson SE, Werkman SH, Montalto MB, Tolley EA. Visual acuity development of preterm (PT) infants fed docosahexaenoic acid (DHA) and arachidonic acid (ARA): Effect of age at supplementation. Pediatric Research 45:279A, 1999.
- Carlson SE, Mehra S, Kagey WJ, Merkel KL, Diersen-Schade DA, Harris CL, Hansen JW. Growth and development of term infants fed formulas with docosahexaenoic acid (DHA) from algal oil or fish oil and arachidonic acid from fungal oil. Pediatric Res 45:278A, 1999.
- Carlson SE: Very low birth weight preterm infants fed DHA-supplemented formulas: results of three trials using three DHA sources. 4th Congres of the International Society for the Study of Fatty Acids and Lipids, Program and Abstracts, June 4-9, 2000, p. 154.
- Smuts CM, Huang MI, Mundy DC, Carlson SE: Isomeric fatty acids in mothers and their infants: A further exploration of relationships to DHA and AA in a new population with benefit of umbilical vessel wall fatty acids. PUFA in Maternal and Child Health, Program and Abstracts, Sept. 10-13, 2000, Kansas City, Missouri (Lipids, 2001 in press), p. 17
- Smuts CM, Carlson SE: Relative effects of womens' DHA status entering the third trimester of pregnancy and third trimester DHA intake on infant DHA status at birth. Ibid, p. 41.
- Smuts CM, Huang MI, Mundy D, Carlson SE: Essential fatty acids in maternal and newborn phospholipids from a primarily African-American population in the United States. Ibid, p. 41.
- Carlson SE: PUFA and growth: Resolving issues of n-3 and n-6 fatty acid balance. Ibid, 42.
- Bogener J, Radel JD, Zhao J-P, Gaines JB, Carlson SE: Effect of a diet deficient in alpha-linolenic acid on adult rat visual evoked potentials. Ibid, 4 (addendum).
- Carlson SE, Gaines JB, Zhao J, Cui L, Choudhuri R, Berman NE: Effect of low brain docosahexaenoic acid on gene expression in rat frontal cortex. Pediatr. Res. 49:294A, 2001
- Radel JD, Bogener J, Zhao J-P, Gaines JB and Carlson SE. Effect of a diet deficient in alpha-linolenic acid on adult rat visual evoked potentials. Poster presentation (Radel) at National ARVO Abstracts, May 2001.
- Beyer PL, Meek L, Wismer K, Carlson SE. Gastrointestinal symptoms in persons with diabetes. American College of Gastroenterology, 2002
- Carlson SE, Huang M, Smuts CM, Mundy D, Plasse T, Major S. A randomized clinical trial of DHA supplementation during the third trimester of pregnancy and pregnancy outcome. Platform presentation at joint meeting of AOCS/ISSFAL, Montreal, Canada, May 2002.
- Radel JD, Levant B, Carlson SE: Effects of developmental DHA deficiency and remediation upon evoked brain activity at maturity in rats. Poster presentation (Radel) at Neurosciences meeting in Orlando, FL, November 2002. Program No. 106.5 2002 Abstracts Viewer/Itinerary Planner. Washington DC: Society for Neuroscience, CD-ROM.

- Levant B, Radel JD, Grasing K, Richards TL, Carlson SE. Effects of developmental DHA deficiency and remediation on adult behavior in rats. Poster presentation (Levant) at Neurosciences meeting in Orlando, FL, November 2002. Program No. 106.5 2002 Abstracts Viewer/Itinerary Planner. Washington DC: Society for Neuroscience, CD-ROM.
- Gaskill TR, Smuts CM, Carlson SE. Maternal trans-fatty acid levels and infant docosahexaenoate (DHA) status at parturition. FASEB Abstracts 2003.
- Carlson SE, Colombo J, Shjaddy DJ, Maikranz JM, Kundurthi S, Anderson CJ, Kannass KN, Blaga OM. Maternal DHA levels and the development of attention. Society for Research in Child Development Abstracts 2003.
- Radel J, Levant B, Carlson S. Correlation of altered evoked neural activity at maturity and brain DHA levels during early development: A reversibility study in rats. Maternal and Infant LCPUFA Workshop, Kansas City, MO, May 2003.
- Levant B, Radel J, Carlson S. Decreased brain docosahexaenoic acid during development alters dopamine-related behaviors in adult rats that are differentially affected by dietary remediation. Ibid.
- Gaines J, Levant B, Radel J, Berman N, Carlson S. Anterior cerebral gene expression in a rat model of "physiologically relevant" DHA reduction. Ibid.
- Carlson S The role of LCPUFA (DHA+ARA) in Infant Development, Fukuoka, Japan, May 2003.
- Carlson SE. Maternal long chain fatty acid metabolism and nutrition: Influences on pregnancy outcome and neonatal development. Mother & Infant Conference, Montreal, CA, June 2003.
- Carlson S. Human milk as a model for infant formula. Bristol-Myers Squibb/Mead Johnson Colloquium, New Harmony, IN, June 2003.
- Kundurthi S, Sullivan DK, Carlson SE. Occurrence of overweight and contributing factors in infants and toddlers. North American Association for the Study of Obesity, Nov 2003.
- Beyer P, Carlson S, McCallum R. Prevalence of GI symptoms in persons with diabetes and age-gender matched controls. American College of Gastroenterology, Nov 2003.
- Klein RM, Liverman CS, Carlson SE, Berman NE. Grape-enriched diet upregulates transthyretin in aged mouse brain: Potential protection from Alzheimer's disease? Nov 2007 Neuroscience meeting, Program/ Poster #: 256.17/N27.

#### **Abstracts Published but Not Presented (National)**

- Carlson SE, Putnam JC, DeVoe PW, Barness LA: Red blood cell membrane sialic acid with several infant diets. *Clinical Research* 30:619A, 1982.
- Carlson SE, Cooke RJ, Peeples J, Werkman S: Docosahexaenoic acid (DHA) supplementation of preterm infants. *Pediatric Research* 23(4):481A(#1674), 1988.
- Cooke RJ, Werkman SH, Watson D, Conner C, Carlson SE: Effect of type of protein on plasma amino acids in the very-low-birthweight infant. *Pediatric Research* 25(4):287A(#1703), 1989.
- Cooke RJ, Werkman SH, Watson D, Conner C, Carlson SE: Effect of type of protein on growth and metabolic status in the very-low-birthweight infant. *Pediatric Research* 25(4):287A (#1704), 1989.
- Cooke RJ, Werkman SH, Watson D, Conner C, Carlson SE: Effect of type of protein on nitrogen (N), calcium (CA), and phosphorus (P) balance in the VLBWI. *Pediatric Research* 25(4):287A (#1705), 1989.
- Downing GJ, Rhodes PG, Reddy NS, Carlson SE: Effects of intravenous (IV) lipids on RBC phospholipid (PL) 22:6n-3 in very low birthweight infants (VLBW). *Pediatric Research* 25(4):288A (#1711), 1989.
- Carlson SE, Cooke RJ, Peeples JM, Werkman SH: Arachidonic acid (AA) status of very low birth weight (VLBW) infants fed preterm (PT) vs term (T) formula to 48 weeks postconception (PCA). *Pediatric Research* 29(4):292A (#1736), 1991.

- Carlson SE, Werkman SH: Effect of docosahexaenoate (DHA, 22:6n-3) supplementation of preterm infants on visual acuity at two months. *Pediatric Research* 31(4):40A (#223), 1992.
- Carlson SE, Peeples JM, Cooke RJ, Werkman SH: Effects of docosahexaenoate (DHA, 22:6n-3) supplementation of preterm (PT) infants on arachidonate (AA, 20:4n-6) and DHA status. *Pediatric Research* 31(4):286A (#1699), 1992.
- Karant S, Mirro R, Carlson SE, Korones SB: Lung function improves in preterm neonates with immature phospholipid profiles treated with exogenous surfactant. *Pediatric Research* 31(4):311A (#1853), 1992.
- Kramer TR, Carlson SE: Use of whole-blood (W-B) cultures to measure mitogenic responsiveness (MR) of lymphocytes to phytohemagglutinin (PHA) in breast-fed and formula-fed infants. *Pediatric Research* 35(4):13A (#66), 1994.
- Koo WWK, Walters J, Massom L, Chesney RW, Blake R, Carlson SE: Dual energy x-ray absorptiometry measurement in infants and effect of movement artifact. *Pediatric Research* 35(4):315A(#1878), 1994.
- Carlson SE, Ford AJ, Peeples JM, Werkman SH: Visual acuity in term infants fed human milk or randomly assigned to a formula with or without long chain n-3 and n-6 fatty acids. *Pediatric Research* 37(4):302A (#1802), 1995.
- Koo W, Walters J, Carlson SE: Changes in bone mineralization by dual energy x-ray absorptiometry (DXA) during infancy. *Pediatric Research* 37(4):64A(#368), 1995.
- Koo W, Walters J, Carlson SE: Postnatal delay in bone mineralization of preterm (PT) infants. *Pediatric Research* 37(4):312A (#1854), 1995.

## **VISITING PROFESSORSHIPS AND INVITED LECTURES**

### **National:**

- Course Coordinator/Moderator: "Pediatric Lipid Metabolism", 13th Clinical Congress American Society for Parenteral and Enteral Nutrition, Miami Beach, Florida, February 5, 1989
- "Issues Related to the Lipid Composition of Infant Formulas", 13th Clinical Congress, American Society for Parenteral and Enteral Nutrition, Miami Beach, Florida, February 5, 1989
- Chairman: Mini-Symposium "Pediatric Lipid Metabolism", Federation of American Societies for Experimental Biology (American Institute of Nutrition/American Society for Clinical Nutrition), New Orleans, Louisiana, March 22, 1989
- "Conditionally Essential Fatty Acids", American Society for Parenteral and Enteral Nutrition 14th Clinical Conference, San Antonio, Texas, January 30, 1990
- "Are N-3 Polyunsaturated Fatty Acids Essential for Growth and Development" American Oil Chemists' Society Short Course on Health Effects of Dietary Fatty Acids, Baltimore, MD, April 19, 1990
- "Long-term Docosahexaenoate (DHA) and Eicosapentaenoate (EPA) Supplementation of Preterm Infants: Effects on Biochemistry, Visual Acuity, Information Processing, and Growth in Infancy", 81st Amer Oil Chemists' Society Annual Meeting, Baltimore, MD, Apr 24, 1990.
- "Plasma Lipoprotein Levels during Fetal Development and Infancy", New York Academy of Sciences Conference on Hyperlipidemia in Childhood and Development of Atherosclerosis, Bethesda, MD, May 1990
- "Lipid Composition of Infant Formulas: Where Are We Now on the Issue of Very Long Chain n-6 and n-3 Fatty Acids?" American Society for Parenteral and Enteral Nutrition, 15th Clinical Congress, San Francisco, California, January 27, 1991

"Overview on Infant Nutrition and Development" and Chairperson: Minisymposia: "Maternal Nutrition/Lactation"; "Infant Nutrition and Development", Federation of American Societies for Experimental Biology (American Institute of Nutrition/American Society for Clinical Nutrition), Atlanta, Georgia, April 23, 1991

"Should Human Milk Lipids Be the Model for Lipids in Formulas Designed for Preterm Infants?" Departments of Animal Sciences and Nutritional Sciences, University of Vermont, Burlington, Vermont, June 28, 1991

"Fatty Acid Requirements", Neonatal Nutrition, Children's Hospital of the Medical University of South Carolina, Charleston, South Carolina, March 10, 1992

"Special Components for Infant Formulas", Neonatal Nutrition, Children's Hospital of the Medical University of South Carolina, Charleston, South Carolina, March 11, 1992

"Necessary Nutrients in the Composition of Human Milk", 1992 International Lactation Consultant Association Conference, Chicago, Illinois, July 9, 1992

"The Fatty Acid Profile of Preterm Formulas: Why All the Fuss?", Small Bundles: Nutritional Support for the High Risk Infant, Orlando, Florida, April 3, 1993

"Effect of Early Feeding on Later Outcome", Small Bundles: Nutritional Support for the High Risk Infant, Orlando, Florida, April 3, 1993

Seminar: "N-3 and N-6 Fatty Acid Status of Preterm Infants", Western Human Nutrition Research Center (USDA), San Francisco, California, August 12, 1993

"Omega-3 and Omega-6 Supplementation of Infants: Biochemistry, Visual Development and Growth", Scientific Conference on Omega-3 Fatty Acids in Nutrition, Vascular Biology and Medicine, American Heart Association, Dallas, Texas, April 17, 1994

"Dietary Arachidonic Acid Status in Infants: Effects of Dietary Arachidonate, Eicosapentaenoate and Docosahexaenoate", Symposium: The Biological Effects of Dietary Arachidonic Acid, American Institute of Nutrition/Society for International Research, Atlanta, GA, April 11, 1995

"Preterm Infants Fed Formula Supplemented With Marine Oil DHA Compared With Controls Fed Only Linolenic Acid Have a Shorter Look Duration", American Oil Chemists' Society Annual Meeting, San Antonio, Texas, May 11, 1995.

"Neurodevelopmental Effects of N-3 LCPUFA", University of Colorado, Fort Collins, Colorado, July 28, 1995

"Effect of LCPUFA on Visual and Cognitive Function", 40th Annual Nutrition and Food Science Management Seminar, Austin, Texas, March 28, 1997.

LCPUFA and Infant Development, Symposium on Function of N-3 Fatty Acids. American Dietetics Association Annual Meeting, Boston, MA, October 30, 1997

Breastfeeding and the DHA Controversy, Plenary Lecture, American Academy of Pediatrics Annual Meeting, San Francisco, CA, October 19, 1998

Long Chain Polyunsaturated Fatty Acids and Infant Development, Neonatal Nutrition Seminar American Academy of Pediatrics Annual Meeting, San Francisco, CA, October 20, 1998

Neonatal Nutrition (Panelist with Dr. Robert Hall and Dr. Larry Gartner in taped interview) American Academy of Pediatrics –Pediatric Update (CME series), Editor-in-Chief, Kurt Metzl, M.D., UMKC, School of Medicine, Taped in San Francisco, CA, October 20, 1998

"DHA and Pregnancy Outcomes in Applying Emerging Science: Targeting DHA for Improvement of Maternal and Infant Health," ADA Food and Nutrition Conference and Exhibition, Denver, CO, October 19, 2000.

"Dietary Phospholipids and Reduction of Necrotizing Enterocolitis: Plausible Mechanisms," American Oil Chemists' Society, Annual Meeting, Minneapolis, MN, May 14, 2001.

"Update on Long Chain Fatty Acids for Infants and in Maternal/Fetal Health" (2 lectures), Leadership, Education and Training Program in Maternal and Child Health Nutrition, Univ. of Minnesota, May 2002.

- "Dietary Fatty Acids and the Brain," Department of Endocrinology, Univ. of Indiana/Purdue University Indianapolis (IUPUI), Indianapolis, IN, Nov. 18, 2002
- "Human Milk as a Model for Infant Formula." Bristol-Myers Squibb/Mead Johnson Colloquium, New Harmony, IN, June 2003.
- "DHA Supplementation and Pregnancy Outcome," Maternal Fetal Medicine Nutrition Interest Group, San Francisco, CA, Feb. 2003
- "DHA and ARA Supplementation of Infant Formula and Implications for Infant Development," Pediatric Grand Rounds – KUMC, March 2002.
- Ibid. Blank Children's Hospital, Des Moines, IA, October 2002
- Ibid. Pediatric Grand Rounds, Children's Hospital, Dayton, OH, Mar 2003
- Ibid. Pediatric Grand Rounds, LeBonheur Children's Hospital, Memphis, TN, Aug 2003
- Ibid. Masters of Pediatrics, Ft. Lauderdale, FL, Jan. 29, 2004
- Ibid. Florida Dietetic Association, West Palm Beach, FL, July 12, 2004
- "Overview of Omega-3 Fatty Acids in Maternal and Infant Development." Invited presentation to the American Dietetic Association, Anaheim, CA, October 3, 2004.
- "DHA for Mothers and Babies." Invited lecture for Society for Pediatric Research Workshop, April 29, 2006.
- "Maternal and Infant DHA Nutrition: Impact on Infant Development." Indiana Dietetic Association Annual Meeting, October 25-26, 2007.
- "Polyunsaturated Fatty Acids and Development of Term and Preterm Infants." American Dietetic Association 2008 Pediatric Nutrition Symposium, Building Blocks for Pediatric Practice, Minneapolis, MN, April 9-11, 2008
- "Maternal DHA Supplementation: What is the evidence it is needed?" Experimental Biology Symposium on Maternal Nutrient Supplementation, San Diego, CA, April 2008.

### **International**

- "Protein Energy Requirements of Term and Preterm Infants", Second International Symposium on Infant Nutrition and Development of the Gastrointestinal Tract, Niagara Falls, Ontario, Canada, June 21-25, 1982
- "Polyunsaturated Fatty Acids in Infant Nutrition", "Essentiality of Omega 3 Fatty Acids" (Panel) Dietary Omega 3 and Omega 6 Fatty Acids: Biological Effects & Nutritional Essentiality Advanced Research Workshop sponsored by NATO, International Life Sciences Institute Research Foundation and the Nutrition Foundation of Italy, Belgirate, Italy, June 20-23, 1988. Co-Chair with Norman Salem:
- "Growth and Development in Infants" Second International Conference on the Health Effects of Omega-3 Polyunsaturated Fatty Acids in Seafoods, Washington, D.C., March 20, 1990.
- "Essentiality of Omega-3 Fatty Acids in Growth and Development of Infants", Second International Conference on the Health Effects of Omega-3 Polyunsaturated Fatty Acids in Seafoods, Washington, D.C., March 1990
- ".n-3 Supplementation of the Very Small Premature Infant: Accumulation and Function" Third Joint Meeting of the American and European Societies for Pediatric Gastroenterology and Nutrition, (Plenary Lecture), Amsterdam, Netherlands, May 24, 1990
- "Growth and Development of Very Low Birth Weight Infants in Relation to n-3 and n-6 Essential Fatty Acid Status", Third International Congress on Essential Fatty Acids and Eicosanoids, Adelaide, South Australia, March 1-5, 1992
- "Essential Fatty Acids in Neonatal Development", First Pacific Rim International Symposium on Fatty Acids: Evolution in Relation to Neurobiology, 35th Annual Meeting of the Canadian Federation of Biological Societies, Victoria, Canada, June 18, 1992

- "Distribution and Function of Omega-3 Fatty Acids in Fetal and Adult Tissues" Symposium on Omega-3 Fatty Acids: Metabolism and Biological Effects, Oslo, Norway, September 16, 1992
- "The Effect of Marine Oil-Supplemented Formulas With and Without Eicosapentaenoic Acid on the n-3 and n-6 Fatty Acid Status and Growth of Premature Infants", Fifth International Meeting of The Society for Research on Polyunsaturated Fatty Acids, Tokyo, Japan, November 1992
- "Growth and Development of Premature Infants in Relation to n-3 and n-6 Fatty Acid Status", First International Congress of the International Society for the Study of Fatty Acids and Lipids, Lugano, Switzerland, July 1, 1993
- "Polyunsaturated Fatty Acid Status and Later Outcome of Preterm Infants" Plenary Lecture, Annual Meeting of the Dutch Paediatric Association Amsterdam, The Netherlands, Nov 2, 1994
- "Long Chain Polyunsaturated Fatty Acids and Infant Growth & Development" University of Guelph Department of Nutrition, Guelph, Ontario, Canada, March 22, 1996
- "EFA Metabolism in Infant Nutrition", Tygerberg Hospital Department of Paediatrics Capetown, South Africa, March 27, 1996
- "Fatty Acids in Health Workshop", Univ of Stellenbosch, Stellenbosch, South Africa, Mar 31, 1996
- "Essential Fatty Acid Metabolites in Growth and Development", South African Nutrition Congress, Stellenbosch, South Africa, April 3, 1996
- "Effects of DHA Supplementation on Visual Acuity and Visual Attention of Preterm Infants" Symposium on Infant Nutrition: Dietary Effects on the Development of Vision, Cognition and Language, International Conference on Infant Studies, Providence, RI, April 19, 1996
- "Significance of Long Chain Fatty Acids in Infant Nutrition" Symposium on Infant Nutrition Celebrating the 50th Anniversary of the National Nutrition Council of Norway, Oslo, Norway August 28, 1996
- "N-3 LCPUFA and Infant Neural Development", University of Limburg, Maastricht, The Netherlands, June 14, 1996
- "Methodology of Neurodevelopmental Assessment", International Conference on Highly Unsaturated Fatty Acids in Nutrition and Disease Prevention, Barcelona, Spain, Nov 6, 1996
- "N-3 and N-6 Supplementation of Infants", The Role of LCPUFA in Neonatal Nutrition Florence, Italy, November 14, 1996
- "LCPUFAs and Early Development of Infants", International Symposium on Advances in Infant Feeding: Human Milk and Formula, Baveno, Italy, March 20, 1998
- "Infant Development in Relation to LCPUFA Status", Pediatrics Symposium, Ancona, Italy, May 20-22, 1999
- "LCPUFA Supplementation of Preterm Infants: Neural Influences in Three Trials," 23<sup>rd</sup> World Congress & Exhibiton of the International Society for Fat Research Brighton, England, October 3-7, 1999
- "DHA and Pregnancy, Symposium on Omega 3 Fatty Acids in Perinatal Medicine", Oslo, Norway, 18<sup>th</sup> European Congress of Perinatal Medicine, June 19, 2002.
- "Increasing Docosahexaenoic Acid Intake during Pregnancy Increases Length of Gestation," International AOCS meeting, Taipei, Taiwan, September 2002.
- "Phospholipids in Infant Nutrition: Plausible and Researchable roles in Gut Function Suggested by Recent Findings." 8<sup>th</sup> International Lecithin and Phospholipid Society meeting, Vienna, Austria, September 2002
- "The role of LCPUFA (DHA+ARA) in Infant Development, " Japanese Society of Nutrition and Food Science, Fukuoka, Japan, May 2008
- "Maternal Long Chain Fatty Acid Metabolism and Nutrition: Influences on Pregnancy Outcome and Neonatal Development." Mother and Infant Conference, Montreal, Canada, June 2003.

"Increased DHA Intake During the Last Trimester of Pregnancy May Extend the Duration of Gestation and Enhance Foetal Growth." "Possible Mechanisms Underlying Behavioral Effects of DHA and AA during Development". Mother and Newborn Present and Future, Milan, Italy, December 11-12, 2003.

Invited expert for the EU supported PERLIP Consensus Conference: on "Dietary fat intake during the perinatal period", September 11-14, 2005, Wildbad Kreuth, Bavaria, Germany (declined because of time conflict).

Organizer for maternal and infant section of the International Society for Study of Fatty Acids and Lipids, Cairns, Australia, July 22-29, 2006.

"Omega-3s in Pregnancy and Infancy." 3<sup>rd</sup> Workshop on Omega-3 Fatty Acids in Functional Foods, Shanghai, China, November 8-9, 2007.

"Long-chain polyunsaturated fatty acids and infant and child development." Amsterdam, The Netherlands, June 3, 2008.

### **University/Government/Foundations**

"Significance of Carnitine in Infant Diets." A report prepared for the Committee on Nutrition of the American Academy of Pediatrics and the Food and Drug Administration following a conference held in Tampa, Florida, May 1979

"Docosahexaenoic Acid Status of Preterm Infants: Biochemical Effects of Nutritional Manipulation", Lotte Arnrich Lecture, Iowa State University, Ames, Iowa, April 11, 1986

"Lipid Nutrition and Visual Acuity", First Joint Symposium on Nutrition and Aging of the Nervous System, The Institute for Developmental Neuroscience and Aging and The Institute for Research on Senescence, The University of Texas Medical Branch at Galveston, Galveston, Texas, October 25, 1990.

"Visual Acuity, Growth, and Cognition in Preterm Infants: Relationship to n-3 and n-6 Fatty Acid Status", Children's Nutrition Research Center, Baylor College of Medicine, Houston, Texas, February 21, 1991

Invited Speaker and Panelist: "n-3 Fatty Acid Requirements of Infants", Food Directorate Symposium, Bureau of Nutritional Sciences, Ottawa, Ontario, Canada, June 21, 1991

Invited Presentation: "Long Chain Fatty Acids and Visual Function", Workshop "Abnormalities in Lipid Metabolism in Retinitis Pigmentosa", Retinitis Pigmentosa Foundation, The Woodlands, Texas, March 20, 1993

Seminar: "Effect of Early Feeding on Later Outcomes in Preterm Neonates", Pew National Nutrition Foundation, Center for Nutritional Sciences, University of Florida Gainesville, Florida, April 5, 1993

Speaker and Discussant: Fish Oil Test Materials Program Advisory Committee, National Institutes of Health and Department of Commerce, Bethesda, Maryland, May 12, 1994

"Fatty Acids and Neural Function", New Approaches to Define Nutrient Requirements USDA, University of California and UC Davis, Department of Clinical Nutrition, San Francisco, California, July 14-15, 1994

Critical Review on Trans Fatty Acids and Early Development: Expert Panel, International Life Sciences Institute, 1995-1996

Consensus Meeting on Long Chain Polyunsaturated Fatty Acids and Perinatal Development, Child Health Foundation, Munich, Germany, July 18-21, 1999

"Dietary Long Chain Fatty Acids and Visual Development in Infants", How Nutrition Affects Cognition: Implications for Feeding Infants and Children, 29<sup>th</sup> Annual Current Issues in Nutrition. A satellite videoconference originating from Iowa State University, April 27, 2000.

CHERAB Conference: The first Scientific Conference on Therapy for Verbal Apraxia/Dyspraxia, Scientific Panel and presenter, July 23-24, 2001.

Carlson SE. Behavioral and Molecular Effects of Modest Reductions in Brain DHA for Brain Uptake and Utilization of Fatty Acids (NIH conference), Bethesda, MD, October 20, 2004

Carlson SE. DHA and ARA Supplementation of Infant Formula and Implications for Infant Development. Univ. of Maryland, Baltimore, MD, Nov. 12, 2004

Carlson SE. Committee on Nutrient Relationships in Seafood: Balancing Benefits and Risks, Institute of Medicine, Food and Nutrition Board, The National Academies, December 2004 to present (work to be completed fall 2006).

Carlson SE. Omega-3 fatty acids and visual and cognitive function. Columbia University Symposium, May 22, 2005.

Carlson SE. Health benefits of n-3 fatty acids for pregnant and lactating women and infants. Workshop on Developing Functional Foods with Omega-3 Fatty Acids at Univ. of Massachusetts, Amherst, MA, June 9, 2005

Carlson SE. Invited presentation on health benefits of omega-3 fatty acids for the 2005 National Forum on Contaminants in Fish sponsored by the U.S. Environmental Protection Agency, Sept. 18-21, 2005.

Carlson SE. Fatty Acids and Neuronal Development: The DHA Story. Masters of Pediatrics Leadership Conference, Bal Harbour, FL, January 25-30, 2006

Carlson SE. Invited presentation on health benefits of omega-3 fatty acids for the 2006 annual meeting of AAAS, St. Louis, MO, Feb 17, 2006.

External consultant for NIEHS panel in Raleigh, NC speaking on quality of the evidence for benefits of DHA. March 8-9, 2006.

Carlson SE. Invited presentation on health benefits of omega-3 fatty acids for the 29<sup>th</sup> Annual Seafood Science and Technology Conference in San Antonio, TX – November 13-16, 2006.

Carlson SE. Health Benefits of Seafood – Women, Infants and Children. Benefits and Risks Associated with Seafood and Aquaculture Consumption, Florida Sea Grant – University of Florida/IFAS In-Service Training Program, Gainesville, FL, March 26-27, 2007.

Expert panelist for the LSRO Nutrition Formula for Preterm Infants Post-hospital discharge (report completed in 2007).

Carlson SE. EPA/DHA and Brain Development, What You Eat. What You Do. Who You Are. Tufts University Friedman School of Nutrition Science and Policy, October 29-31, 2007

Carlson SE. Early determinants of risk for suboptimal neurodevelopment in relation to specific time windows such as pregnancy and infancy. ILSI North American: Food, Nutrition and Safety Program, Early Nutrition Subcommittee Workshop, Washington, DC, July 8-9, 2008.

### **Industry-Sponsored National/International**

"Impact on Infant Feeding on Blood and Membrane Lipids", Seminar on Fats and Cholesterol in Infants and Children, Wyeth Laboratories, Helsinki, Finland, June 28, 1984

"Impact of Infant Feeding on Blood Lipids", Video Conference: Primary Prevention of Atherosclerosis in Childhood - The Role of Lipids. Impact on Infant Feeding on Blood and Membrane Lipids, Wyeth Laboratories, New York, New York, May 27-28, 1985

"Breastfeeding and Lipid Metabolism", 91st Ross Conference, The Breast-fed Infant: A Model for Performance, Carefree, Arizona, October 27-30, 1985

"Accumulation and Possible Function of Highly Polyunsaturated Fatty Acids in Membranes During Development", "Accumulation of Highly Polyunsaturated Fatty Acids in Cell. Membranes of the Preterm Infant: The Role of Diet", 31st Perinatal and Developmental Symposium, Mead Johnson Symposium on Infant Nutrition, Palm Desert, California. November 15-19, 1987

"Omega-3 Fatty Acids and Infant Nutrition", Campbell Institute for Research and Technology, Camden, New Jersey, January 26, 1989

- "Long Chain Fatty Acids and Infant Nutrition", Advanced Research Workshop on Essential Fatty Acids and Infant Nutrition (Sponsored by Milupa), Athens, Greece, May 26-27, 1989
- "Plasma Arachidonic Acid and Growth in Preterm Infants", Milupa Symposium on Recent Advances in Infant Feeding, Leidschendam, Netherlands, May 27, 1990
- "The Role of PUFAs in Infant Nutrition", Hoffman-La Roche PUFA Conference, Ashbourne, Derbyshire, England, November 13, 1990
- "Influence of Corn, Soy and Marine Oils in Premature Formulas With Particular Reference to Arachidonic and Docosahexaenoic Acid, Growth and Development", Mead Johnson Symposium on Lipids in Infant Nutrition, Chatham, Massachusetts, August 30, 1991
- "Lipid Requirements of Very Low Birth Weight Infants for Optimal Growth and Development". Second Dobbing Conference on Lipids, Learning and the Brain: Fats in Infant Formula (Sponsored by Ross Laboratories), Adelaide, Australia, March 7-9, 1992
- "Long Chain Fatty Acids and Visual and Cognitive Development of Preterm Infants", Milupa Symposium, Nottingham, England, September 2, 1993
- "Long Chain Fatty Acids and Visual and Cognitive Development of Preterm Infants", Milupa Symposium on Progress in Premature and Infant Feeding Center for Studies on Infant Nutrition/Argentine Pediatric Society, Buenas Aires & Cordoba, Argentina, Sept 22 - 24, 1993
- "DHA and Infant Nutrition", Pfizer Research Nutraceutical Symposium, Mystic, Connecticut, November 16, 1993
- "Assessment of Infants Receiving Marine Oil-Supplemented Formulas", Eighth Wyeth-Ayerst Nutritional Seminar on New Insights Into Lipids in Infant Nutrition, Cerromar Beach, Puerto Rico, December 2-5, 1993.
- "Do Current Feeding Practices Meet the In-Hospital Needs of Preterm Infants for EFA?" 106th Ross conference on Pediatric Research, Colorado Springs, Colorado, August 18-20, 1995
- "Effects of Formulas with and Without DHA on First-Year Growth, Visual Grating Acuity, and Neurodevelopmental Outcomes of Preterm Infants", 106th Ross Conference on Pediatric Research, Colorado Springs, Colorado, August 18-20, 1995
- "N-3 and N-6 Supplementation of Term Infants", 10th Nutricia Symposium on Recent Developments in Infant Nutrition, Scheveningen, The Hague, Nov 29 to Dec 2, 1995
- "The Role of LCPUFAs in Visual and Cognitive Development", SODILAC, Paris, France, December 3, 1996
- "Polyunsaturated Fatty Acids and Infant Development", Long Term Effects of Fetal and Early Childhood Events on Later Development and Disease Risk, Milupa Scientific Symposium Bremen, Northern Germany, October 15-17, 1999
- "Infant LCP Trials: Visual and Other Neurodevelopmental Outcomes", LCP and Infant Nutrition – Can we improve current practice? Nutricia-Milupa Scientific Symposium, Birmingham, UK, December 1, 2001.
- "Human Milk as a Model for Infant Formula". Bristol-Myers Squibb/Mead Johnson Colloquium, New Harmony, IN, June 2003.
- "Optimizing Maternal and Infant DHA Intake." Presented at Mead Johnson Speakers Symposium, Henderson, NE, June 11, 2005.
- "Homeward Bound: Postdischarge Nutrition of Preterm Infants." Nourishing the Neonate Conference, Orange County, CA, September 20-21, 2007.
- Ibid, Dallas, TX, October 5-6., 2008
- "Omega-3 PUFA and Brain Development, "Wyeth Global Nutrition Advisory Board Meeting, Madison, NJ, November 12-14, 2008.

### **Continuing Medical Education - Local**

- "Maternal and Infant Nutrition", Workshop on Maternal & Infant Nutrition Mississippi Public Health Assoc., Biloxi, Mississippi, May 1983
- "Support of the Breast Feeding Mother", Seventh Annual Mississippi Perinatal Postgraduate Course, Jackson, Mississippi, December 6, 1985
- "Nutritional Aspect of Breast Feeding", Mississippi Dietetic Association, 39th Annual Meeting Jackson, Mississippi, April 16, 1986
- "Follow-up Nutritional Care of Preterm Infants", Central Mississippi Pediatric Society Jackson, Mississippi, September 23, 1986.
- "Breastfeeding the Premature Infant", Nutrition '87 - What Are the Choices? Memphis Area Nutrition Council Symposium XVIII, Memphis, Tennessee, May 7, 1987
- "Nutrition for the 1990s", Wyeth Laboratories CME Program, Osage Beach, MO, Aug 20, 1988
- "Pediatric Nutrition", Family Practice Residents, Jackson, Tennessee, May 10, 1989
- Co-Chairman: Clinical Nutrition, Southern Society for Pediatric Research, New Orleans, Louisiana, January 18, 1990
- "n-3 Fatty Acids and Visual Acuity in Developing Infants", Department of Biochemistry Seminar The University of Tennessee, Memphis, Tennessee, May 17, 1990
- "Simplifying Nutritional Advice to Parents", Grand Rounds, Department of Pediatrics The University of Tennessee, Memphis/LeBonheur Children's, Medical Center, Memphis, Tennessee, August 22, 1990
- "Vitamin A Deficiency: Frequency and Consequences to Growth and Development of Premature Infants", Twenty-second Memphis Conference on the Mother, Fetus, and Newborn, University of Tennessee, Memphis, Tennessee, September 27, 1990
- "Preventable Cancers", Focus for the 90's: Cancer Prevention and Control, American Cancer Society, Nashville, Tennessee, April 5, 1991
- "Role of Essential Fatty Acid Metabolism in the Growth and Development of the Premature Newborn Infant", Department of Physiology and Biophysics, University of Tennessee, Memphis, Tennessee, January 13, 1992
- "Growth and Development of Premature Infants Related to N-3 and N-6 Fatty Acids" Departments of Biochemistry and Pediatrics, University of Mississippi Medical Center Jackson, Mississippi, December 9, 1992
- "Nutrition: Biochemistry and Function", M-1 Medical Students, University of Mississippi Medical Center, Jackson, Mississippi, December 9, 1992
- "The Effect of Dietary n-3 Fatty Acid Status on Visual Acuity in Preterm Infants", Southern College of Optometry, Memphis, Tennessee, January 13, 1993
- "Nutritional Management of the Low-Birth-Weight Infant" Eleventh Annual Tennessee Conference on Perinatal and Neonatal Care The Tennessee Perinatal Care System, Tennessee Department of Health and Environment, Nashville, Tennessee, March 2, 1993
- "The Role of N-3 Fatty Acids in Visual Function of Preterm Infants" Fifth Annual Research Day in Vision and Ophthalmology, Department of Ophthalmology, The University of Tennessee, Memphis, Tennessee, May 14, 1993
- "Nutrition in Very-Low-Birth Weight Infants", Sixth Annual Symposium, Memphis Area Society for Parenteral and Enteral Nutrition, Memphis, Tennessee, May 21, 1993
- "Role of Essential Fatty Acids in Infant Development", Pediatric Grand Rounds, University of Mississippi Medical Center, Jackson, Mississippi, February 15, 1995
- "Clinical Trials Studying n-3 and n-6 Fatty Acids", Sigma Xi Lecture, University of Mississippi Medical Center, Jackson, Mississippi, February 16, 1995
- "Post-Discharge Nutrition for Preterm Infants", Twenty-seventh Memphis Conference on the Newborn, The University of Tennessee, Memphis, Tennessee, September 13, 1996

“Impact of Long-Chain Fatty Acids on Growth and Development”, Contemporary Lactation Issues for 1998, Children’s Mercy Hospital, Westin Crown Center Hotel, Kansas City, MO, Oct 1, 1998  
“Breast Feeding and Brain Development” (Dr. Robert Hall gave the presentation because I had a family commitment), Clinical Advances in Pediatrics, Children’s Mercy Hospital, Kansas City, Missouri, November 20, 1998  
“Dietary Lipids and Infant Development: Consensus and Controversy”, Noon Research Seminar, Children’s Mercy Hospital, Kansas City, Missouri, February 5, 1999  
“Nutrition for Patients with HIV, Trinity Lutheran Hospital Foundation Grant, Kansas City, Missouri, March, 24, 1999; June 16, 1999  
“America’s Calcium Crisis”, Calcium Summit, Kansas City, MO, April 18, 2000  
“America’s Crisis in Child Nutrition: Advocating for Children before Intervention is Needed.” Workshop for 24<sup>th</sup> Annual Governor’s Conference for the Prevention of Child Abuse and Neglect: Teaming up to keep kids safe at home, Topeka, KS, October 20, 2000  
“Unraveling the Mysteries of DHA in Neural Function”, Sigma Xi Seminar, KUMC, Kansas City, KS, November 15, 2000  
“DASH and DASH-Sodium Diets”, Kansas Dietetic Association, Manhattan, KS, March 30, 2001  
“DHA in Functional Foods and Dietary Supplements”, KUMC Dept. of Dietetics and Nutrition CME Course, Kansas City, KS, June 29, 2001  
“LCPUFA and Infant Development”, Pediatric Grand Rounds, KUMC, Feb. 2002  
“DHA for Moms and Babies”, Pediatric Grand Rounds, KUMC, January 2005

*NOTE: Except for the last two talks in this list, I have not added local talks to my CV since 2001.*