CURRICULUM VITAE
MARY ALICE SMITH

PERSONAL

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EDUCATION

Doctor of Philosophy - Toxicology/Pharmacology, 1990. University of Arkansas for Medical Sciences, Little Rock, Arkansas. Dissertation: Chlorobenzene- and Iodobenzene-Induced Hepatotoxicity and Its Antagonism by Phentolamine.

Master of Science - Developmental Biology, 1980. Emory University, Atlanta, Georgia. Thesis: An *In Vivo* and *In Vitro* Analysis of Cyclic AMP and Cyclic GMP in Normal and Brachypod Mouse Hind Limbs.

Master of Arts in Teaching - Secondary School Science, 1976. Certified Supervising Teacher, Emory University, Atlanta, Georgia.

Bachelor of Science - Biology Education, 1971. Auburn University, Auburn, Alabama.

SUMMARY OF EXPERIENCE

1999-present	Associate Professor, Environmental Health Science, University of Georgia. Instructor for senior level courses in Environmental Toxicology and graduate level courses in Environmental Risk Assessment/Risk Communication and Developmental and Reproductive Toxicology. Graduate Coordinator for Environmental Health graduate students, and interim co-director of the Academy of the Environment, a university-wide initiative to bring together research and teaching programs. Conducts research on risk assessment methodology for food borne pathogens, effects of pathogens on pregnancy outcome and developmental toxicology.
1994-1999	Assistant Professor, Environmental Health Science, University of Georgia, Athens, GA. Instructor for senior level courses in Environmental Toxicology and Introduction for Environmental Health, and graduate level Environmental Risk Assessment and Risk Communication. Advisor to approximately 40 undergraduate majors per semester and seven graduate students. Coordinator for the environmental health science internship program supervising about 50 student interns per year. Conducts research on risk assessment methodology for food borne pathogens, effects of pathogens on pregnancy outcome and developmental toxicology.

2001-2002	Study leave to University of North Carolina School of Dentistry. Conducted research on effects of periodontal pathogens on pregnancy outcome in a mouse model. Received Ruth L Kirschstein National Research Service Award for partial support during the study leave.
2000-present	Collaborative Scientist in the Division of Research Resources at the Yerkes National Primate Research Center, Atlanta, GA.
1993	Assistant Professor, Biology Department, Emory University, Atlanta, GA. Temporary position as instructor for senior level neurobiology course.
1993	Toxicology Consultant, Atlanta, Georgia. Worked with an Expert Committee for the development of methodologies for evaluation of reproductive and developmental toxicants; evaluated a health effects database for Superfund sites for the Agency for Toxic Substances and Disease Registry (ATSDR), Atlanta, Georgia, and wrote journal articles about findings with ATSDR personnel.
1991-1994	Adjunct Assistant Professor, Environmental and Occupational Health Division, School of Public Health, Emory University, Atlanta, Georgia. 1991-1993 Course coordinator for Environmental and Occupational Toxicology course and Emory liaison to Atlanta Consortium of Environmental Health Sciences (ACEHS). Primary responsibilities were working with faculty from other institutions in ACEHS and grant writer to acquire support for the consortium.
1991-1993	Senior Scientist/Toxicologist, Risk Assessment and Toxicology Program Law Environmental, Inc., Kennesaw, Georgia. Conducted human and ecological risk assessments for Superfund sites and hazardous waste sites.
1989-1990	Postdoctoral Research Associate, Department of Periodontology Dental Research Center, Emory University School of Postgraduate Dentistry, Atlanta, Georgia. Research projects involved testing drugs for their efficacy in the treatment of periodontal disease and examining the effects of endotoxin on pregnancy outcome in hamsters.
1989-1991	Collaborative Scientist, Division of Pathobiology and Immunobiology, Yerkes Regional Primate Research Center, Atlanta, Georgia
1985-1989	Graduate Student Research Assistant, Division of Interdisciplinary Toxicology, University of Arkansas for Medical Sciences, Little Rock, Arkansas and Division of Reproductive and Developmental Toxicology, National Center for Toxicological Research, Jefferson, Arkansas.

1981-1984	Research Associate, Endocrinology Division, Emory University and Veterans Administration Medical Center, Atlanta, Georgia. Conducted radioimmunoassays for steroid hormone research laboratory.
1979-1981	Graduate Student Teaching Assistant, Biology and Endocrinology Labs; Genetics; Biochemistry, Biology Department, Emory University, Atlanta, Georgia.
1977-1979	Instructor, Introductory Biology; Anatomy & Physiology DeKalb Community College, Decatur, Georgia.
1972-1977	Teacher, Basic and Advanced High School Biology, DeKalb County School System, Decatur, Georgia.
1971-1972	Teacher, 7th Grade Science, Louisville City Schools, Louisville, Kentucky.

FUNDING SOURCES

President's Venture Fund. To provide partial support for the Academy of the Environment's first symposium, "Setting our goals high," $10,000, 2006. Co-Principal Investigator with Ian Hardin.

American Meat Institute Foundation. "Refinement of *Listeria monocytogenes (L. monocytogenes)* low dose data from pregnant guinea pigs for human risk assessment", $150,000, 2006-2008, Principal Investigator.

Center for Food Safety. "Cytokines as a predictor of low dose exposure to *Listeria monocytogenes* in pregnant guinea pigs," $30,000, 2006, Principal Investigator.

International Life Sciences Institute. "Mouse strains for assessing *Enterobacter sakazakii* infections", $144,267, 2005-2007, Principal Investigator.

U.S. Food and Drug Administration. "Development of a Risk Assessment Dose-Response Model for Food Borne *Listeria monocytogenes*," $983,047, 1998-2006. Principal Investigator.

Center for Food Safety. "Supplement for dose response of *Listeria monocytogenes* in pregnant guinea pigs", $30,000, 2004-2005, Principal Investigator.

US Department of Agriculture. "Dose response of *Listeria monocytogenes* in pregnant guinea pigs for use in risk assessment", $124,000, 2003-2005, Principal Investigator.

Alfred P. Sloan Foundation. Funds to recruit underrepresented minority students to work on PhD in Dr. Smith's laboratory, $4000. Two students were awarded funds to support them while working on their PhD degrees with Dr. Smith, $36,000 per student.

US Department of Agriculture. “Alliance for Food Protection”, $136,921, 2003-2005, MP Doyle, Principal Investigator; MA Smith, Co-Principal Investigator for “Determine the effect of fat content on virulence of Listeria monocytogenes”, $40,000, 2003-2005.

US Food and Drug Administration. “Determination of biomarkers of increased susceptibility to foodborne listeriosis”, $75,000, 2001-2003, Principal Investigator.

US Department of Agriculture. “Comparison of *Listeria monocytogenes* virulence in a mouse model for use in risk assessment”, $150,000, 2001-2003, Principal Investigator.

Federal Hatch Funds. "Improving Risk Assessment Methodology for Biological and Environmental Contaminants" (Termination date: June 2000), Principal Investigator; Developing Dose Response Information for Microbial and Chemical Risk Assessments” (Termination date: June 2006), Principal Investigator.

Air Force Office of Scientific Research Summer Research Extension Program. "Measurement of Apoptosis During Embryonic Limb Development", $20,000, 1997, Principal Investigator.

National Institute for Occupational Safety and Health. "Analytical Evaluation of Polyethylene Glycol (PEG) Solvent on Recovery of Selected Agricultural Compounds", $25,000, 1995 - 1997, Principal Investigator.

Center for Food Safety and Quality Enhancement. "Development of a Quantitative Microbial Risk Assessment Model Using *Escherichia coli* O157:H7 and *Listeria monocytogenes*", $21,192, 1997. Principal Investigator.

Air Force Office of Scientific Research Summer Faculty Research Program. "Measurement of apoptosis during embryonic limb development after maternal treatment with retinoic acid". Was awarded a summer faculty research grant at Wright Patterson Air Force Base, Dayton, OH for Summer, 1996. Funds included stipends and living expenses for Dr. Smith and one of her graduate students, Jerry Campbell, and research funds. $20,000, 1996, Co-principal investigator.

University of Georgia Toxicology Research Grant. "Dose Response Effects of Electromagnetic Fields on *In vitro* Chondrocyte Differentiation", $9,847, 1996-1997, Principal Investigator.

University of Georgia Faculty Research Grant. "*In Vitro* Biological Assays for Screening Environmental Contaminants", $6,460, 1995, Principal Investigator.

University of Georgia, Institutional Grant. Title: Studies of the Effect of Heavy Metals on Vertebrate Development. Amount of Award: $50,000, 1994-1995.

Block Drug Company, Inc. "The Topical Treatment of Periodontal Disease in Rhesus Monkeys", $300,000, 1991-1992, Co-Principal Investigator.

Hoffman-LaRouche Foundation. "Antagonism of Chlorobenzene- and Iodobenzene-Induced Hepatotoxicity by Phentolamine", $5,000, 1990, Principal Investigator.

Air Force Office of Scientific Research. "Mechanisms of Halocarbon-Induced Hepatotoxicity in the Mouse", $7,000, 1989, Principal Investigator.

Graduate Student Research Funds Award. University of Arkansas for Medical Sciences. Title: Alpha-Amanitin Induced Hepatotoxicity in the Mouse. Amount of Award: $1,500, 1988-1989.

PROFESSIONAL RECOGNITIONS AND AWARDS

2006-2010 Member of Editorial Board for journal *Reproductive Toxicology*.

2006 Dr. Smith's graduate students, Denita Williams and Elizabeth Irvin, received graduate student travel awards from the Teratology Society to attend the June 2006 annual meeting in Tucson, AZ.

2005 Awarded the Faculty Mentor of the Year award for the Sloan Foundation from The Compact for Faculty Diversity.

2004-2005 Invited member of the Task Force to draft a publication on "Microbial Risk Analysis in Food Safety" for the Council for Agricultural Science & Technology.

2002-2004 Invited member of international expert panel for drafting a white paper assessing the risk from exposure to Listeria monocytogenes sponsored by the non-profit International Life Science Institute (ILSI), Washington, DC. Report published September 2005. (see publications list).

2004 Dr. Smith's graduate student, Denita Williams, received a graduate student travel award from the Teratology Society to attend the June 2004 annual meeting in Vancouver, British Columbia.

2003 Dr. Smith was selected as a member of the Sloan Foundation PhD Minority Network to recruit and mentor underrepresented minority students in her laboratory.

2003 Dr. Smith's graduate student, W. Matthew Henderson was awarded a graduate student travel award from the Teratology Society to attend the June, 2003 annual meeting in Philadelphia, PN.

2002 Recognized by the University of Georgia's Career Center for contributing to the career development of UGA students, September, 2002.

2001-2002 Received Ruth L Kirschstein National Research Service Award for partial support during the study leave to University of North Carolina School of Dentistry to conduct research on effects of periodontal pathogens on pregnancy outcome in a mouse model.

2001 Awarded the University of Georgia First Annual Outstanding Academic Advisor/Mentor Award for tenured/tenure track faculty.

2000 Invited co-chair for session on "Food Safety" at the 2000 annual meeting of the Society of Toxicology in Philadelphia, PN, March, 2000.

2000 Invited talk on "Women in Science: A personal perspective" during women's history month to the Federal Woman's Program at the USEPA's Region IV headquarters, Atlanta, GA, March, 2000.

1998 Invited chair for the session on "Developmental Toxicology" at the 1998 meeting of the Society of Toxicology in Seattle, WA.

1997 Invited co-chair for the session on "Apoptosis" at the 1997 meeting of the Society of Toxicology in Cincinnati, OH.

1996 Elected to full membership in the Society of Toxicology.

1996 Faculty Summer Research Program, United States Air Force Office of Scientific Research. Paid for summer salary and expenses for Dr. Smith and a graduate student to work at the Toxicology Division at Wright Patterson Air Force Base, Dayton, Ohio.

1996 Dr. Smith's graduate student, Amita Kanti, was awarded a graduate student travel award from the Society of Toxicology to attend the March, 1996, annual meeting in Anaheim, CA**.**

1995 Two of Dr. Smith's graduate students, Amita Kanti and Jerry Campbell, tied for first place in the graduate student poster presentation competition presenting research conducted in my laboratory for the Southeastern Section of the Society of Toxicology meeting in Athens, GA, October, 1995.

1995 Two Environmental Health Science undergraduate majors were nominated by Dr. Smith and received Minority Student Travel Awards from the Society of Toxicology to attend the annual meeting in Baltimore, MD.

1995 Outstanding Faculty Award, UGA Chapter of Golden Key Honor Society

1995 Invited to present a woman scientist's prospective in the Diversity Symposium sponsored by the College of Agricultural and Environmental Sciences, December, 1995.

1991-present Teratology Society, full member

1985-1989 Graduate Assistantship, Interdisciplinary Toxicology Program, University of Arkansas for Medical Sciences and National Center for Toxicological Research, Jefferson, Arkansas

1979-1980 Teaching Assistantship, Biology Department, Emory University, Atlanta, Georgia

1980 University Fellowship, Biology Department, Emory University, Atlanta, Georgia

1967-1971 Dean's List, Alpha Lambda Delta Freshman Women's Honorary Delta Omicron Honorary Music Fraternity for Women, Auburn University, Auburn, Alabama

ORGANIZATIONS AND SOCIETIES

1991-present	Teratology Society, (Chair, Nominations and Elections Committee, 2002-2003)
1990-present	Society of Toxicology (full member 1996-present)
1992-present	Southeastern Regional Chapter of the Society of Toxicology, (1995-Councilor; 1999-president)
1988-present	Association for Women in Science
1977-79; 1985-1996	American Association for the Advancement of Science
1979-81; 1988-90	Society of Sigma Xi, Associate Member
1993	Association for Women in Science, Atlanta Chapter, President
1985-1989	Society of Toxicology, South Central Chapter
1985-1989	Graduate Student Association, University of Arkansas for Medical Sciences, Secretary, 1987-1988.
1978-1981	Phi Sigma Society, Pi Chapter
1975-1977	National Association of Biology Teachers

PUBLICATIONS

Williams, L.D., A.E. Glenn, A.M. Zimeri, C.W. Bacon, M.A. Smith, and R.T. Riley. Fumonisin Disruption of Ceramide Biosynthesis in Maize Roots and the Effects on Plant Development and Fusarium verticillioides-Induced Seedling Disease. J Agri J Agric Food Chem (accepted Jan 2007).

Williams, D., E.A. Irvin, R.A. Chmielewski, J.F. Frank, and M.A. Smith. Dose Response of Listeria monocytogenes After Oral Exposure in Pregnant Guinea Pigs. J Food Protection (accepted Dec 2006).

Henderson, W.M. and M.A. Smith. Perfluorooctanoic acid (PFOA) and perfluorononanoic acid (PFNA) in fetal and neonatal mice following in utero exposure to 8-2 fluorotelomer alcohol (FTOH). 2006 Nov 8; [Epub ahead of print]

Henderson, W.M, E.J. Weber, J. W. Washington, and M.A. Smith. Simplified method to

determine fluorinated chemicals using a selective ion scan for perfluoroalkyl chain fragments with GC/MS. J Chromatogr B Analyt Technol Biomed Life Sci. Sep 23; [Epub ahead of print]. 2006.

Williams, L.D., A.E. Glenn, C.W. Bacon, M.A. Smith, and R.T. Riley. Fumonisin production and bioavailability to maize seedlings grown from seeds inoculated with Fusarium verticillioides and grown in natural soils. J Agric Food Chem Jul 26;54(15):5694-5700. 2006.

Scofield, E.H., W.M. Henderson, A.B. Funk, G.L. Anderson and M.A. Smith. Diethylene glycol monomethyl ether, ethylene glycol monomethyl ether and the metabolite, 2-methoxyacetic acid affect in vitro chondrogenesis. *Reproductive Toxicology* [Epub ahead of print, July 2006].

Council for Agricultural Science and Technology (CAST) Task Force. Issue Paper: Using risk analysis to inform microbial food safety decisions. CAST Issue Paper 31:1-20. 2006.

Mytle, N., G.L. Anderson, S. Lambert, M.P. Doyle and M.A. Smith. Effect of fat content on infection of *Listeria monocytogenes* in a mouse model. *J Food Protection* 69 (3):660-665. 2006.

Takeuchi, K. N. Mytle, S. Lambert, M. Coleman, M.P. Doyle and M.A. Smith. Comparison of *Listeria monocytogenes* virulence in a mouse model. *J Food Protection* 69(4):842-846. 2006.

Nichani V, W.I. Li, M.A. Smith, G. Noonan, M. Kulkarni, M. Kodavor, and L.P. Naeher. Blood lead levels in children after phase out of leaded gasoline in Bombay, India. Sci Total Environ Jun 15:363(1-3):95-106. 2006.

ILSI Research Foundation/Risk Science Institute Expert Panel on Listeria monocytogenes in Foods. Achieving Continuous Improvement in Reductions in Foodborne Listeriosis—A Risk-Based Approach. *J Food Protection* 68(9):1932-1994. 2005.

Yeo, A., M.A. Smith, D. Lin, E.L. Riche, A. Moore, J. Elter, and S. Offenbacher. Campylobacter rectus mediates growth restriction in pregnant mice. *J. Periodontol* 76(4):551-557. 2005.

Mytle, N., Anderson, G.L., Doyle M.P. and Smith, M.A. Efficacy of Clove (*Syzgium aromaticum*) oil in inhibiting Listeria monocytogenes during refrigerated storage of RTE chicken. *Food Control* (In Press, available online Nov 26, 2004). 2005.

Campbell, JL, Jr, MA Smith, JW Fisher and DA Warren. Dose-Response for Retinoic Acid-Induced Forelimb Malformations and Cleft Palate: A Comparison of Computerized Image Analysis and Visual Inspection. *Births Defects Research* (Part B) 71:289-295. 2004.

Takeuchi, K, MA Smith, and MP Doyle. Pathogenicity of food and clinical *Listeria*

monocytogenes isolates in a mouse bioassay. *J Food Protection* . 66(12): 2362-2366. 2003.

Smith, MA, K Takeuchi, RE Brackett, HM McClure, R Raybourne, K Williams, US Babu, GO Ware, JR Broderson, and MP Doyle. A nonhuman primate model for *Listeria monocytogenes*-induced stillbirths. *Infection and Immunity* 71(3):1574-1579. 2003.

Lin, DM, MA Smith, C Champagne, J Elter, J Beck, and S Offenbacher. *Porphyromonas gingivalis* infection during pregnancy increases maternal Tumor Necrosis Factor-alpha, suppresses maternal Interleukin-10 and enhances fetal growth restriction and resorption in mouse. *Infection and Immunity* 71: 5156-5162. 2003.

Lin, DM, MA Smith, J Elter, C Champagne, CL Downey, J Beck, and S Offenbacher. *Porphyromonas gingivalis* infection in pregnant mice is associated with placental dissemination, an increase in placental Th1/Th2 cytokine ratio and fetal growth restriction. *Infection and Immunity* , 71:5163-5168. 2003.

Williams, LD, CW Bacon, FI Meredith, AJ Franzluebbers, RD Wyatt, MA Smith, and RT Riley. Leaching and binding of fumonisins in soil microcosms. *J Agric Food Chem* 51:685-690. 2003.

Anderson, GL., AB Funk, ES Hanson, JL Hill and MA Smith. Alternative methods for assessing chondrogenesis in micromass culture. *Toxicology Methods* 11:89-105, 2001.

Campbell, JL, MA Smith, MA Eiteman, PL Williams and MF Boeniger. Wipe recovery of selected pesticides using an *in vitro* porcine skin model. *Am Industrial Hygiene Assoc Journal* 61:82-88, 2000.

Holcomb, DL, MA Smith, GO Ware, YC Hung, RE Brackett, and MP Doyle. Dose response models for food borne pathogens. *Risk Anal* 19(6):1091-1100, 1999.

Kanti, A, and MA Smith. Effects of heavy metals on chondrogenic differentiation of embryonic chick limb cells. *In Vitro Toxicology* 10(3): 329-338. 1997.

Smith, MA, MC Gothaus, DA Warren, and JR Latendresse. An automated procedure for *in situ* detection of apoptosis. *J Histotechnology* 20(4):329-335. 1997.

Smith, MA. Reassessment of the carcinogenicity of polychlorinated biphenyls (PCBs). *J Toxicol Environ Hlth* 50:101-113, 1997.

Moore, JA, M Callahan, R Chapin, GP Daston, D Erickson, E Faustman, P Foster, JM Friedman, L Goldman, M Golub, C Huges, RJ Kavlock, CA Kimmel, JC Lamb, SC Lewis, C Lunchick, S Morseth, BK Mortensen, EJ O Flaherty, AK Palmer, J Ramlow, PM Rodier, K Rudo, L Ryan, BA Schwetz, A Scialli, S Selevan, R Tyl, M Campbell, E Carney, W Faber, J Hellwig, SR Murphy, MA Smith, PL Strong, and M Weiner. An assessment of boric acid and borax using the IEHR evaluative

process for assessing human developmental and reproductive toxicity of agents. *Reproductive Toxicology* 11(1):123-160, 1997.

Smith, MA and A Kanti. Chick embryo limb bud cell culture for screening environmental contaminants. Environmental Toxicology and Risk Assessment: Modeling and Risk Assessment (6th Volume), ASTM STP 1317, F James Dwyer, Thomas R. Doane, and Mark L. Hinman, Eds., American Society for Testing and Materials, Philadelphia, 1997.

Li KL, Vogel R, Jeffcoat MK, Alfano MC, Smith MA, Collins JG and Offenbacher S. The effects of ketoprofen creams on periodontal disease in Rhesus monkeys. *J Periodont Res* 31:525-532, 1996.

Collins, JG, MA Smith, RR Arnold and S Offenbacher. Effects of *Escherichia coli* and *Porphyromonas gingivalis* lipopolysaccharide on pregnancy outcome in the golden hamster. *Infection and Immunity* 62:4652-4655, 1994.

Moore JA, Hardisty JF, Banas DA and Smith MA. A comparison of liver tumor diagnoses from seven PCB studies in rats. *Regulatory Toxicol Pharmacol* 20:362-370, 1994.

Smith MA, Braswell LD, Boyd DL, Collins JG, Jeffcoat MK, Reddy M, Li KL, Wilensky S, Vogel R, Alfano M and Offenbacher S. Changes in inflammatory mediators in experimental periodontitis in the Rhesus monkey. *Infection and Immunity* April, 1993.

Offenbacher S, Williams RC, Jeffcoat MK, Howell TH, Odle BM, Smith MA, Hall CM, Johnson HG and Goldhaber P. Effects of NSAIDs on beagle crevicular cyclooxygenase metabolites and periodontal bone loss. *J Periodont Res* **27**:207-213, 1992.

Offenbacher S, Odle BM, Green MD, Mayambala CS, Smith MA, Fritz ME, Van Dyke TE, Yeh KC and Sena FJ. Inhibition of human periodontal prostaglandin E_2 synthesis with selected agents. *Agents and Actions* **29:** 232-238, 1990.

Smith MA, Thomford PJ, Mattison DR and Slikker W, Jr. Transport and metabolism of dexamethasone in the dually perfused human placenta. *Reproductive Toxicology* **2:** 37-43, 1988.

Elmer WA, Smith MA and Ede DA. Immunohistochemical localization of cyclic AMP during normal and abnormal chick and mouse limb development. *Teratology* **24:** 215-223, 1981.

INVITED PRESENTATIONS

Smith, M.A. "Development of animal models for predicting the risk of *Listeria monocytogenes*-induced stillbirths in humans," presented at Emory University's Department of Environmental and Occupational Health seminar series, Atlanta, GA. September, 2006.

Smith, M.A. and A. N. Richardson. "Mouse models to assess *Enterobacter sakazakii* (*e. sakazakii*) virulence and pathogenicity," presented at the International Association of Food

Protection annual meeting, ILSI symposium on *Enterbacter sakazakii*. August, 2006.

Smith, M.A. "Listeria-induced stillbirths: Impact of mechanisms of infection on risk assessment." Symposium on Emerging Infections during Pregnancy. Teratology Society Annual meeting, Tucson, AZ. Birth Defects Research 76(5): Abstract #26. June, 2006.

Smith, MA. "A monkey model for *L. monocytogenes* infection during pregnancy," presented at the FELFO Workshop, KolleKolle, Denmark, January 20-21, 2005.

Smith, MA. "Dose Response of *Listeria monocytogenes* in Mice, Guinea Pigs, Rhesus Monkeys and Humans", the Centers for Disease Control and Prevention, Atlanta, GA, October 8, 2004.

Smith, MA. "The *Listeria monocytogenes* Dose-response Relationship: Novel Animal Models", the International Association for Food Protection Annual Meeting, Phoenix, AZ, August 8-11, 2004.

Smith, MA. "Development of animal models for *Listeria monocytogenes*", Food Research Institute 2004 Annual Meeting, University of Wisconsin-Madison, Madison, Wisconsin, May 18-19, 2004.

Smith, MA. "*Listeria monocytogenes* model in monkey", for meeting of *Listeria monocytogenes* and Risk Analysis sponsored by ASEPT, L'Hgyiene dans la Qualite, Laval, France, March 17-18, 2004.

Smith, MA. "*L. monocytogenes* Hazard Characterization: NAFS Study in Session on Risk Assessment: A Food Safety Paradigm for the Future, IFT's International Food Safety and Quality Conference and Expo, Orlando, FL, November, 2003.

Smith, MA. "Development of animal models for investigating the mechanisms of *Listeria monocytogenes*-induced stillbirths in humans", for the Genetics, Cell Biology and Anatomy Department Seminar Series, University of Nebraska Medical Center, Omaha, NE, October, 2003.

Smith, MA. Primates as a model for *L. monocytogenes* infective dose: A progress report, invited talk for ILSI-sponsored symposium on *"Listeria monocytogenes*: Current Issues and Concerns--Session I: Pathology, Virulence, and Risk Assessment of *L. monocytogenes"*, International Association for Food Protection, 87th Annual Meeting in Atlanta, GA, August, 2000.

Smith, MA. Alternative dose response models for foodborne pathogens, invited presentation and participant in WHO/FAO Workshop on "Hazard Characterization of Pathogens in Food and Water", Bilthoven, The Netherlands, June, 2000.

Smith, MA. Development of a risk assessment model for foodborne *Listeria monocytogenes*, invited talk for the FDA/FSI Extramural Research Annual Review, College Park, MD, December 1999.

Smith, MA. The application of risk assessment to public policy. Invited talk for the 51st Annual Educational Conference of the Florida Environmental Health Association, "Environmental Health-Challenges and Opportunities in the Millennium", Orlando, FL, May, 1999.

Smith, MA and DL Holcomb. Emerging food- and water-borne microbial diseases and their toxicology. Invited speaker for symposiuim "Chemical modifiers of biological response to food-borne microbial pathogens" presented at the 1999 Society of Toxicology Annual Meeting, New Orleans, LA, March, 1999.

Smith, MA, J Campbell, EM Hanson and A Warren. Apoptosis as a biomarker for abnormal limb development. Invited platform presentation at the ASTM Eighth Symposium on Environmental Toxicology and Risk Assessment, Atlanta, GA, April, 1998.

Smith, MA. Overview of Environmental Risk Assessment and Risk Communication, invited presentation at the Georgia Environmental Health Association meeting, Dillard, GA, August, 1996.

Smith, MA and A Kanti. Chick embryo limb bud cell culture for screening environmental contaminants, invited platform presentation at the ASTM's Sixth Symposium on Environmental Toxicology and Risk Assessment in Orlando, FL, April, 1996.

Smith, MA. Effects of Lead on Skeletal Growth. Invited seminar to Department of Pharmacology and Toxicology, College of Pharmacy, University of Georgia, Athens, GA, May 1994.

Smith MA. Environmental Health Internship Program. Environmental Protection Division, Department of Natural Resources, Atlanta, GA. June, 1994, and Centers for Disease Control and Prevention, Office of Health and Safety, April, 1994.

Smith MA. Workshop on "Risk Assessment and Risk Communication". Georgia Public Health Association, Jekyll Island, Georgia. 1994.

Smith MA. Risk Assessment and Risk Communication. State meeting of Regional Public Health Directors of Georgia. Atlanta, Georgia, 1992.

PRESENTATIONS

Irvin, E.A., D. Williams, K.A. Voss and M.A. Smith. Immunological and pathological effects of Listeria monocytogenes infection in pregnant guinea pigs. Teratology Society Annual meeting, Tucson, AZ. Birth Defects Research 76(5): Abstract #7. 2006.

Williams, D, E.A. Irvin, R.A. Chmielewski, J.F. Frank and M.A. Smith. Dose response, infectivity and stillbirths in pregnant guinea pigs inoculated with Listeria monocytogenes. Teratology Society Annual meeting, Tucson, AZ. Birth Defects Research 76(5): Abstract #P23. 2006.

E.A. Irvin, D. Williams, S. Lambert, A. Richardson, M.A. Smith. 2005. Mechanisms of *Listeria monocytogenes* Induced-Stillbirths in Pregnant Guinea Pigs. Presented at the annual meeting of

the Teratology Society, June 26-30, St. Pete Beach, FL. Abstract published in Birth Defects Research 73:294.

E.A. Irvin, D. William, G.L. Anderson, J.F. Frank, W.M. Henderson, M.A. Smith. 2005. Characteristics of listeriosis in pregnant guinea pigs. Presented at the annual meeting of the Center for Food Safety, March 1-2, Atlanta, GA.

Henderson, WM, EJ Weber, SE Duirk and M Smith. 2005. Mammalian metabolism and distribution of perfluorooctyl ethanol and its oxidation metabolites. Annual meeting of the Society of Toxicology, March, 2005, New Orleans, LA.

Campbell, JL, D Warren M Smith and JW Fisher. 2005. Physiologically-based pharmacokinetic model for all trans retinoic acid in pregnant CD-1 mice. Annual meeting of the Society of Toxicology, March, 2005, New Orleans, LA.

Williams, LD, AE Glenn, CW Bacon MA Smith and RT Riley. 2005. Accumulation of sphingoid bases and sphingoid base 1-phosphates: A possible mechanism for Fusarium verticillioides corn-seedling disease. Annual meeting of the Society of Toxicology, March, 2005, New Orleans, LA.

Williams, D., EA Irvin, GA Anderson, JF Frank, WM Henderson, and MA Smith. 2004. Microbiological and pathological characteristics of listeriosis in pregnant guinea pigs. Annual meeting of the Teratology Society, June, 2004 Vancouver, BC. Abstract in Births Defects Research 70(5):298.

Smith, MA, GA Anderson, HM McClure, K Takeuchi, R Raybourne, GO Ware and MP Doyle. 2003. Dose response of Listeria monocytogenes-induced stillbirths in a pregnant nonhuman primate model. Annual meeting of the Teratolog y Society, June, 2003, Philadelphia, PN. Abstract in Birth Defects Research 67 (5):328.

Henderson, WM, GA Anderson and MA Smith. 2003. Effects of methyoxyacetic acid (MAA) on apoptosis in *in vitro* chondrogenesis. Annual meeting of the Teratology Society, June, 2003, Philadelphia, PN.

Yeo, A, MA Smith, AC Moore, DM Lin and S Offenbacher. 2003. Campylobacter rectus mediates growth restriction in the pregnant mouse model. Annual meeting of the American Association of Dental Research, March, 2003, San Antonio, TX. Abstract number: 0885.

Tillman, G. E., A. K. Agyekum, G. L. Anderson, and M. A. Smith. 2002. Effects of retinoic acid on cell death during in vitro chondrogenesis. Annual meeting of the Society of Toxicology, March, Nashville, TN.

Hodoh, O. B, M. A. Smith and T. W. Simon. 2002. Risk Assessment of a military public golf course slated for closure. Annual meeting of the Society of Toxicology, March, Nashville, TN.

Williams, L.D., Bacon, C.W., Showker, J.L., Meredith, F.I., Franzluebbers, A.J., Smith, M.A., Wyatt, R.D., and Riley, R.T. Kinetics and Binding of Fumonisin in a Model Soil System. Toxicological Sciences. **66**, 69-70. 2002.

Agyekum KA, GL Anderson and MA Smith. 2000. Assessment of in vitro chondrogenesis after treatment with *all trans* retinoic acid. Southeastern Chapter of the Society of Toxicology, Athens, GA.

Williams, LD, JL Showker, CW Bacon, MA Smith and RT Riley. 2000. The fate of fumonisin B_1 in Soil Ecosystems - Part I: Methods validation. Southeastern Chapter of the Society of Toxicology, Athens, GA.

Smith MA, RE Brackett, HM McClure and MP Doyle. 2000. Development of a dose response model for exposure to *Listeria monocytogenes* during pregnancy. Society of Toxicology, Philadelphia, PN.

Anderson, GL, ES Hanson, JL Hill and MA Smith. 2000. Alternative methods for assessing cell proliferation and proteoglycan production in micromass culture. Society of Toxicology, Philadelphia, PN.

Campbell, JL, A Warren, JL Fisher and MA Smith. 1999. Dose response for mouse fetal limb malformations and time-course maternal plasma concentrations from orally administered *all-trans* retinoic acid. Teratology Society, Keystone, CO.

Hanson, ES and MA Smith. 1999. Effects of diethylene glycol monomethyl ether and ethylene glycol monomethyl ether on *in vitro* chondrogenesis. Society of Toxicology, New Orleans, LA.

Smith, MA. Development of risk assessment methodology for food borne pathogens. Invited seminar to Department of Food Science and Technology, University of Georgia, April 28, 1998.

Smith, MA, J Campbell, EM Hanson and A Warren. Apoptosis as a biomarker for abnormal limb development. Invited platform presentation at the ASTM Eighth Symposium on Environmental Toxicology and Risk Assessment, Atlanta, GA, April, 1998.

Campbell J, K Agyekum, B Burke, and MA Smith. 1998. Teratogenic effects of diethylene glycol mono ethyl ether and chromium (III) chloride on *in vitro* differentiation of chick embryonic limb cells. Poster presentation at the Society of Toxicology meeting in Seattle, WA, March, 1998.

Holcomb D, MA Smith, G Ware, R Brackett and MP Doyle. 1998. Microbial dose-response models for use in risk assessment for *Listeria monocytogenes.* Poster presentation at the Society of Toxicology meeting in Seattle, WA, March, 1998.

Smith, MA. 1998. Reassessing the carcinogenicity of polychlorinated biphenyls (PCBs). Invited platform presentation at the Georgia Section of the American Industrial Hygiene Association in Atlanta, GA, January, 1998.

Smith, MA, MC Gothaus, A Warren and JR Latendresse. 1997. Detection of apoptosis using an automated immunohistochemical procedure. Poster presentation at the Society of Toxicology meeting in Cincinnati, OH, March, 1997.

Agekum, K, B Burke, J Campbell and MA Smith. 1997. Teratogenic effects of diethylene glycol mono ethyl ether and chromium (III) chloride on *in vitro* differentiation of chick embryonic limb cells. Poster presentation at the Southeastern Section of the Society of Toxicology, Athens, GA, October, 1997.

Smith, MA and A Kanti. Chick embryo limb bud cell culture for screening environmental contaminants, invited platform presentation at the ASTM's Sixth Symposium on Environmental Toxicology and Risk Assessment in Orlando, FL, April, 1996.

Kinzer, K, Smith MA, and Elmer, WA. Effect of lead on chondrogenic differentiation of embryonic chick limb cells. The Teratology Society, Las Croabas, Puerto Rico, June, 1994.

Smith MA, Braswell LD, Collins JG, Boyd DL, Jeffcoat MK, Reddy M, Li KL and Offenbacher S. Inflammatory mediator changes in Rhesus experimental periodontitis. American Association of Dental Research, Boston, Massachusetts, 1992.

Smith MA, Curley WH and Moore JA. Revised cancer slope factors (CSF) for specific polychlorinated biphenyls (PCB) based on current pathology nomenclature. Society of Toxicology, Seattle, Washington, 1992.

Smith MA, Gandy J, Roberts SM, James RC and Harbison RD. Phentolamine antagonism of iodobenzene hepatotoxicity in B6C3F1 mice. Society of Toxicology, Atlanta, Georgia. March 1989.

Smith MA, Thomford PJ, Mattison DR and Slikker W, Jr. *In vitro* transport and metabolism of dexamethasone in the dually perfused human placenta. Society for the Study of Reproduction, Twentieth Annual Meeting, Urbana, Illinois, July 1987.

Smith MA, Medlock KL, Branhan WS and Sheehan DM. Estradiol (E2), estriol (E3) and tamoxifen (TAM) induction of an ornithine decarboxylase (ODC) activity refractory period in the rat uterus. Society of Toxicology, New Orleans, Louisiana, March 1986.

Smith MA and Elmer WA. An analysis of CAMP and cGMP during normal and brachypod mouse limb development. National Symposium of the Society for Developmental Biology, Storrs, Connecticut, June 1980.

Smith MA and Elmer WA. Cyclic AMP and cyclic GMP levels in hind limbs of normal and brachypod mouse embryos. 21st Southeastern Developmental Biologists Association, Fontana Village, North Carolina, April 1979.

OTHER ABSTRACTS

Li KL, Vogel R, Jeffcoat MK, Alfano MC, Smith MA and Offenbacher S. Effects of ketoprofen creams on periodontal disease in rhesus monkeys. *J Dent Res*, **71**:1706, 1992.

Curley WH, Smith MA, Hamilton S and Moore JA. PCBs and toxic equivalency factors (TEFs): Do TEFs predict carcinogenicity? *The Toxicologist* 12(1): **98**, 1992.

Smith MA, Thomford PJ, Mattison DR and Slikker W, Jr. *In vitro* transport and metabolism of dexamethasone in the dually perfused human placenta. *Biology of Reproduction* **36** (Suppl. 1): 126, 1987.

Smith MA, Thomford PJ, Mattison DR and Slikker W, Jr. Transport and metabolism of dexamethasone in the *in vitro* dually perfused human placenta. *Arkansas Academy of Science, Proceedings* **41**, 1987.

Smith MA, Medlock KL, Branhan WS and Sheehan DM. Estradiol (E2), estriol (E3), and tamoxifen (TAM) induction of an ornithine decarboxylase (ODC) activity refractory period in the rat uterus. *The Toxicologist* **6(1):** 96, 1986.

Smith MA, Walker M and Gordon TP. Characterization of anovulatory period in seasonally breeding rhesus monkeys. *The Endocrine Society, Program and Abstracts*, 65th Annual Meeting, p. 394, 1983.

THESES AND DISSERTATIONS SUPERVISED AS MAJOR PROFESSOR

Kanti, A. Chick embryo limb bud culture systems for screening environmental contaminants. As research co-major professor. (Ph.D., January, 1997).

Campbell, J.L. "Analytical Evaluation of Polyethylene Glycol (PEG) Solvent on Recovery of Selected Agricultural Compounds" (M.S., August, 1997).

Holcomb, D.L. Development of quantitative risk assessment methodology for food borne pathogens (M.S., Summer 1998).

Hanson, E.S. *In vitro* detection of apoptosis in differentiating mesenchymal cells using immunohistochemistry (M.S., Spring 1998).

Williams, L.D. Kinetics of leaching and binding of fumonisin B1 in soil microcosms. (M.S., Spring, 2002).

Agyekum, K.A. Mechanisms of retinoic acid-induced limb malformations during in vitro chondrogenesis (M.S., Summer 2002).

Hodoh, O. Comparison of a point estimate and probabilistic risk assessment of a military golf course slated for base closure (M.S., Summer 2002).

Campbell, J.L. Physiologically-based pharmacokinetic modeling and dose-response for fetal skeletal malformations induced by ingestion of all-trans retinoic acid in CD-1 mice. (Ph.D., Fall 2004).

Williams, L.D. The role of fumonisins in maize seedling disease and the ecological interaction between *Fusarium verticillioides*, soil and plants. (Co-major advisor) (Ph.D., Spring 2006).

Williams, D. Dose response, infectivity and stillbirths in pregnant guinea pigs inoculated with *Listeria monocytogenes*. (M.S., Fall 2006).

Henderson, W.M. Metabolism and Biodegradation of Perfluorooctyl Ethanol (8-2 Telomer Alcohol). (Ph.D., Fall 2006).

Current Students:

Richardson, A. Animal models for *Enterobacter sakazakii* infection in premature infants. (Ph.D. expected, spring 2008).

Irvin, E.A. Mechanisms of *L. monocytogenes* induced stillbirths. (Ph.D expected fall, 2007).

Williams, D. Mechanisms of infection for low dose exposures to *L. monocytogenes* in pregnant guinea pigs. (Ph.D., expected spring 2009).

UNIVERSITY COMMITTEES

2005-2007	Interim Co-Director, Academy of the Environment, University of Georgia
2006-2007	Search Committee for Department Head, Environmental Health Science Department
2006-2007	Search Committee for Dean of College of Public Health
2005 - 2006	Curriculum Committee for the College of Public Health.
2002-2005	Executive Committee for forming the Academy of the Environment, an interdisciplinary unit composed of faculty with research and teaching interests in environmental areas. The unit is part of the College of Environment and Design.

2003-2004	College Enrollment Management Committee. Ad hoc committee formed to by CAES Office of Academic Affairs to recommend responses to the University's change in admissions policy.
2002-2004	College Curriculum Committee.
1999-2002	University Council. The main governing body of the University of Georgia faculty.
1999-2001	University's Faculty Affairs Committee.
1998-2000	College-level Student Affairs Committee. Committee reviews matters of concern for students in College of Agricultural and Environmental Science including student appeals.
1998-2001	University's Graduate Faculty Review Committee. 2000-2001, Chair, Professional and Applied Studies Review Committee. Reviews new and renewing applications for graduate faculty.
2000-present	Implementation Committee for the proposed College of the Environment. Ad hoc committee appointed by the Provost to implement the recommendations of the Environmental Programs Enhancement Committee.
1998-2000	Environmental Programs Enhancement Committee, Ad hoc committee to make recommends for enhancing environmental programs at UGA. Committee was appointed by the Provost.
1999-2002	College Unified Governance Council, College of Agricultural and Environmental Sciences (CAES). Main governing body for the CAES.
1997	College of Agricultural and Environmental Sciences, Environmental Science Review Committee. A committee to recommend the future direction of the environmental science programs in the college.
1996	University System of Georgia Student Advisory Council which works with students from colleges and campuses across the state of Georgia.
1996	1996 Academic Affairs Faculty Symposium, The Public Research University in 2010: Meeting the Challenges, held at Unicoi State Conference Center in Helen Georgia, April, 1996.
1995-2000	Experiential Education Advisory Committee. Advisory committee to set policies and make recommendations for internship and co-operative education experiences.
1995-1996	Curriculum committee for the proposed graduate degree program in Interdisciplinary Environmental Toxicology, College of Pharmacy.