

CURRICULUM VITAE

Suzanne E. Fenton

PROFESSIONAL ADDRESS:

National Toxicology Program Laboratory
Division of the National Toxicology Program
National Institute of Environmental Health Sciences
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EDUCATION:

| | <u>Major</u> | <u>Degree</u> | <u>Date</u> |
|--|--|----------------------|--------------------|
| University of Wisconsin Madison, WI | Dairy Science (Pre-Vet) | B.S. | 1988 |
| University of Wisconsin Madison, WI | Reproductive Physiology Endocrinology | M.S. | 1990 |
| University of Wisconsin Madison, WI | Reproductive Physiology Endocrinology | Ph.D. | 1993 |

PROFESSIONAL EXPERIENCE:

| | <u>Date</u> |
|---|---|
| Reproductive Endocrinologist NTP Labs Branch Division of the National Toxicology Program, NIEHS | May 2011-present |
| Reproductive Endocrinologist Cellular & Molecular Pathology Branch National Toxicology Program, NIEHS | Sept 2009-May 2011 Divisional Realignment |
| Research Biologist Developmental Biology Branch Reproductive Toxicology Division (RTD) US Environmental Protection Agency (US EPA) | Sept 2003-Sept 2009 Divisional Realignment |
| Research Biologist, US EPA, RTD, Endocrinology Branch | Sept 1998-Sept 2003 |
| Adjunct Associate Professor North Carolina State University | Jan 2013-Present |

College of Veterinary Medicine – Comparative Biomedical Sciences

Adjunct Graduate Faculty Oct 2005-Present
University of North Carolina-Chapel Hill
School of Medicine - Toxicology Curriculum

Adjunct Graduate Faculty Jan 2003-Present
University of North Carolina-Chapel Hill
School of Public Health – Environ Sciences & Engineering

Adjunct Graduate Faculty June 2003-Present
North Carolina Central University
Department of Biology

Adjunct Graduate Faculty Oct. 2003-Present
North Carolina Central University
Department of Chemistry

Post-doctoral Fellow 1993-1998
Lineberger Comprehensive Cancer Center
University of North Carolina-Chapel Hill, NC

TEACHING EXPERIENCE:

Lecturer University of Wisconsin-Madison Spring 1991
Reproduction in Farm Animals

Lactation - Dairy Science 305 Fall 1991

Teaching Asst. University of Wisconsin-Madison Spring 1992
Reproduction in Farm Animals Spring 1987, 88, 89

Livestock Production - Dairy Science 101 Fall 1989

MENTORSHIP:

Technical Staff:

Dr. Vesna Chappell – October 2013-present (Kelly Services)

Casey Reed - Oct. 2010-present (Kelly Services, part-time, presently)

Dr. Jason Stanko - Feb. 2005-present (Biologist FTE)

Christine Davis -April 2003-Sept. 2004 (FTE, left lab due to disability)

Dr. Geri Youngblood - January 1999-January 2003 (FTE, left lab for relocation)

Visiting Scientists:

- Dr. Karen Mandrup - Danish Technical Institute, hosted March-April 2012
Served on Karen's doctoral thesis committee in Denmark, Aug 8-9, 2013.
- Dr. Hyun-Ju Moon - Korean Food and Drug Administration, hosted Nov. 2000-June 2001

Post-doctoral Fellows:

- Dr. Sally S. White - NIEHS Research Fellow Feb. 2010-2013
- Dr. Erin P. Hines - R-Authority NHEERL Post-doc, 2004-2008
- Dr. Cindy Mamay - R-Authority NHEERL Post-doc, 2002-2003

Graduate Students:

- Erin Quist, DVM, DACVP - Predoctoral Trainee, September 2011
NC State University, Comparative Pathology, ~2016 graduation
CMPB Toxicological Pathology Resident, NIEHA IRTA Fellow
- Deidre Robinson - Predoctoral Trainee, Summer 2011.
UNC Curriculum in Toxicology; anticipates 2015 graduation
NIEHS IRTA Fellow
- Adam Filgo - Predoctoral Trainee, Summer 2010.
UNC Curriculum in Toxicology; anticipates 2015 graduation
NIEHS IRTA Fellow
- Madisa Macon – Ph.D. 2014, Curriculum in Toxicology, UNC-Chapel Hill
NIEHS IRTA Fellow, US EPA StAR Grant recipient, UNC IMPACT Award
Pursuing a post-doc in the breast cancer field
- LaTonya Roseboro Villanueva - M.S. 2009, Dept. of Chemistry, North Carolina Central Univ.
Currently seeking enrollment in graduate school; Chemistry instructor
- Sally S. White - Ph.D. 2008, Curriculum in Toxicology, UNC-Chapel Hill
Currently a Research Fellow at the NIEHS.
- Jennifer L. Rayner - Ph.D. 2006, Dept. of Environ. Sci. and Engineering, UNC-Chapel Hill
Staff toxicologist at Oak Ridge National Laboratories, Knoxville, TN 2006-2011
Staff toxicologist at SRI, Intl, Arlington, VA 2011-present
- Melanie S. Pooler - M.S., 2004, Department of Biochemistry, North Carolina Central University
Currently a Regulatory Affairs Specialist, PPD Inc., NC Regulatory Affairs Forum
- Rolondo R. Enoch - M.S., 2003, Department of Biology, North Carolina Central University
Currently a Clinical Trials Leader, Xencor, Monrovia, CA.
- Sara N. Greiner - M.S., 2000, Integrated Toxicology Program, Duke University
Currently in the Clean Water Act Standards and Permits Office, US EPA, San Francisco, CA

OTHER STUDENT TRAINEES:

- Caitlin Knowles - Huntington Breast Cancer Action Students & Scientists Program, July 2013
- Alisa Suen - UNC-CH Toxicology Curriculum, Pre-doc research rotation, Spring 2013
- Kyle Herbert - Elon University, Summers of Discovery, 2012

Pretish Borde - Univ of North Carolina-Chapel Hill. Summers of Discovery, 2011
Diedre Robinson - UNC-CH Toxicology Curriculum, Pre-doc research rotation, Winter 2011
Aditi Borde - Panther Creek High School, Cary, NC. Summers of Discovery, 2010 & 2011
Lydia Beck - Univ of Missouri, IRTA Summer trainee, Summer 2010
Adam Filgo - UNC-CH Toxicology Curriculum, Pre-doc research rotation, Spring 2010
Madisa Macon - UNC-CH Toxicology Curriculum, Pre-doc research rotation, Spring 2009
Eugene Gibbs-Flournoy - UNC Toxicology Curriculum, Pre-doc research rotation, Summer 2008
Sally S. White - UNC-CH Toxicology Curriculum, Pre-doc research rotation, Summer 2004
Jennifer Rayner - Under-grad Independent Study/Honor Thesis; Biology Dept., NCCU 2001
Natalie Groce - UNC-CH School of Medicine, Pre-Med research rotation 1996-1997
Annette Phelps - UW-Madison, Animal Sciences Department 1991-1993
Brenda Bielmeier - UW-Madison, Dairy Science Department 1990-1993

RESEARCH INTEREST:

Regulation of fetal mammary gland development
Control of breast development during puberty and relationship to adult disease
Effect of environmental components on ability to lactate
Children's health as it pertains to exposure via breast milk (disposition) and latent health effects

ACADEMIC and SCIENTIFIC HONORS:

Academic Achievement Scholarships (numerous >10; UW-Madison)
Travel Award Recipient - SSR, AACR, FASEB, ADSA
UW-Madison Alumni Award, 1987 (Outstanding UW-Madison Junior)
W.D. Hoard Memorial Honor Scholarship, 1987-88
American Dairy Science Association Achievement Award, 1987 and 1988
Academic All-American 1987 and 1988
UW-Madison Alumni Award, 1988 (Outstanding UW-Madison Senior)
University Bookstore Independent Research Award 1988
Theodore Herfurth Award Finalist 1988 (Outstanding UW-Madison Senior Student)
Louise Troxell Award, 1988 (Outstanding Female Senior university-wide)
USDA Biotechnology Research Fellow (87-GRAD-9-0084)
Sigma Xi Research Award, National Academy of Sciences endowment, 1991
Postdoctoral Fellow - LCCC Training Grant (5T32-CA09156-19) 1993-1994
National Institutes of Health, National Research Service Award (1F32-CA63775-01) 1994-1996
Finalist for the Ladies Auxiliary of the Veterans of Foreign Wars Cancer Research Award 1997
Exceptional ORD Technical Assistance to the Regions or Program Office Award, 2000
Quality Accomplishment Recognition (Q) Award – 2/07
Numerous Special Accomplishment Recognition (S) Awards (RTD/NHEERL/EPA)
2004 EPA STAA Level III Award: Fenton et al. Demonstrating the adverse effects of prenatal dioxin exposure on the developing mammary gland
2004 EPA STAA Level III Award: Abbott, Fenton, et al. Studies on the role of growth factor signal transduction pathways in developmental toxicity
2004 Thomson's Essential Science Indicators (ESI) and Journal Citation Reports – top 1% cited paper in Environment/Ecology category: Birnbaum and Fenton, 2003, *EHP*.
2005 NHEERL award: Goal 3 Science Award

2005 NHEERL award: Diversity - Minority Mentoring
Outstanding Presentation - US EPA Science Forum, May 2005 - Fenton et al., "Methods
Advancement for Milk Analysis: Successful Inter-Agency and NHEERL Collaborations"
Second Place Award.

Paper of the Year Award - *Toxicological Sciences* - RDTSS at 2006 Society of Toxicology
Rayner, Enoch, and Fenton. 2005. Adverse effects of prenatal exposure to atrazine
during a critical period of mammary gland growth. *Toxicol Sci* 87:255-266

Numerous Cover Photos for Top Toxicology Journals (detailed in publications)

Research Highlight: May 2007 *Environ Health Perspect* 115(5):A250-256. EnviroNews Focus
article: Perfluoroalkyl Acids: What is the Evidence Telling Us? Fenton lab mouse photos
and research highlighted.

2007 EPA STAA Level III Award: Fenton et al. Published Adverse Low-Dose Effects of Female
Rat Mammary Glands Following Prenatal Exposure to Atrazine Metabolites

2008 EPA STAA Level I Award: Lau, Abbott, Rosen, Fenton, Das and Wolf. A Team
Contribution to the Understanding of Early-Life Health Effects Following Perinatal
Exposure to PFOA in Mice

2010 May. ILSI HESI Scientific Advisor award for leadership and scientific contributions to the
Developmental and Reproductive Toxicology Technical Committee

2010 December. NIH Merit Award for "Successfully leading validation efforts for mammary
whole mount evaluations in NTP/NIEHS studies".

2010 EPA STAA Level III Award: Hines et al. Method Development to Measure Phthalate
Monoesters, Perfluorinated Chemicals and Endogenous Compounds in Human Milk

2010 NIEHS Paper of the Year. Stanko et al., 2010. Effects of Prenatal Exposure to a Low Dose
Atrazine Metabolite Mixture on Pubertal Timing and Prostate Development of Male
Long Evans Rats. *Reprod Toxicol*, 30:540-549

2011 NIEHS Paper of the Year. Macon et al., 2011. Prenatal perfluorooctanoic acid exposure in
CD-1 mice: low dose developmental effects and internal dosimetry. *Toxicol Sci*, 122:134-
45.

2012 EPA STAA Level III Award: Kodavanti et al. Research to Understand Developmental and
Long-Term Consequences of Polybrominated Diphenyl Ether Exposures

2013 NIH Cross-Divisional Merit Award for "Interagency Breast Cancer and Environment
Coordinating Committee - For outstanding participation and service to the Interagency
Breast Cancer and Environment Coordinating Committee".

PROFESSIONAL ACTIVITIES:

Organizations (member of):

University of Wisconsin-Madison Alumni Association (life member)
Triangle UW-Madison Alumni Club (2006-present)
Sigma Xi (life member)
American Society for Cell Biology (1996-7)
American Association for Cancer Research (1996-8)
American Association for the Advancement of Science (AAAS, 1997-2006)
N.C. Society of Toxicology (1999-2005)
Triangle Consortium for Reproductive Biology
International Society for Exposure Sciences (2007-2012)

Society of Toxicology, Full Member (2001-present)

- Reproductive & Developmental Toxicology Specialty Section (SOT) (2001-present)
- Women in Toxicology (SOT) (2001-present)
- Toxicology and Experimental Pathology Study Section (SOT) (2010-2012)

Teratology Society (2011-present)

Committee Service (member of):

UW-Madison Department of Dairy Science Curriculum Committee 1987-1988

UW-Madison ERPP Seminar Committee 1988-89, 1991-92

UW-Madison ERPP Curriculum Committee 1989-90, 1992-93

UW-Madison ERPP Research Symposium Planning Committee, 1992

UNC-CH Lineberger CCC Postdoctoral Committee 1994-95

US EPA RTD Seminar Series Committee 1999-2003

US EPA RTD Performance and Recognition Committee 2001-2004

US EPA RTD Workgroup on Improving Communication 2004

National Children's Study, "Early Origins of Adult Health" working group 2002-04

National Children's Study Biological Sample Collection Panel 11/05-09/08

US EPA NHEERL Quality Assurance Working Group - RTD representative 2/06-9/09

US EPA EDC Implementation Plan - investigator 2001-2006

Society of Toxicology RDTSS Program Committee for 2007 SOT; 2009 SOT

US EPA Human Health Research Implementation Plan - investigator 2002-2009

US EPA SP2 Implementation Plan – investigator and co-project lead 2005 to 2009

US EPA Long-term Goal 3 co-lead for Human Health Risk Program BOSC review 2008-2009

UNC-Chapel Hill Curriculum in Toxicology Graduate Review Committee 2010-2013

NIEHS Division of Intramural Research COP III Promotion Committee 2012-2015 (Acting Chair – Dec 2012 and April 2013)

NIEHS Strategic Planning in Predictive Toxicology (co-chair Life Stage Susceptibility) 2012-3

UNC-Chapel Hill Curriculum in Toxicology Executive Committee (July 2013 - present)

NIEHS Study Design Teams:

2010- Soy Infant Formula in mice

2010- Perfluorinated Chemicals in rats

2010- In utero/Lactational 2 yr studies of BDE 47, 99, and 152 in mice

2010- Neurobehavioral effects of BDE 47, 99, and 153 in mice

2010- Aromatic Phosphate Flame Retardants

Leadership Roles:

Chair, Endocrinology-Reproductive Physiology Research Symposium, UW-Madison 1991

Chair, US EPA Reproductive Toxicology Division Seminar Series 2000-02

Theme Leader, NCS Goal 8.2 for RTD 2002-2006

Scientific Reviewer, NIEHS 03-001, Breast Cancer and Environment Research Centers, multi-center grants review 2003

Editorial Board, *Birth Defects Research B* - 2003-present (ed. George Daston)

Reproductive Toxicology - 2011-present (ed. Tom Knudsen)

Endocrine Disruptors - 2013-present (ed. Cheryl Watson)

Ad hoc reviewer: 1993–Present (over 100 requests in the last 2 years).

Endocrinology, Biology of Reproduction, Toxicological Sciences, Reproductive Toxicology, Environmental Health Perspectives, Nature Reviews, Toxicological Pathology, Developmental and Reproductive Toxicology, Gene Regulation and Systems Biology, Fertility and Sterility, Toxicology and Applied Pharmacology, Experimental Biology and Medicine, Breast Cancer Research, Archives of Environmental Contamination and Toxicology, Journal of Exposure Science and Environmental Epidemiology, Environmental Health, Neurotoxicology, Environmental Research, PLOS ONE, Mammary Gland Biology & Neoplasia, J of Endocrinology, Human Reproduction, Environ Science & Technology, Environment International, Toxicology Letters, Cancer Epidemiology, Birth Defects Research A, B, & C, Genes, Chromosomes & Cancer, and Endocrine-Related Cancer

Invited reviewer (Special EPA Clearances): “Biomarkers for Assessing Reproductive Development and Health: Part 1 – Pubertal Development” (1/04), EPA’s Cancer Risk Guidelines (1/05), “Assessing Susceptibility from Early-Life Exposure to Carcinogens” (1/05), “Taking Stock: Toxic Chemicals and Children’s Health in North America” (6/05), Conclusions from Special Workshop on Low Dose Bisphenol A Health Effects (3/07)

Funding Recipient, National Children’s Study for “Methods Advancement for Milk Analysis.”
Competitive review 2002 and 2004

Funding Recipient, NHEERL Minority Training Awards (train graduate and undergraduate students in RTD). 2001, 2002, 2003, 2004

Project Manager, CRADA #0176-99 Development of Toxicology/Stress DNA Microarrays 2002

Technical Advisor, US EPA contract (4D-5640-NLX) to LabCorp, Inc. to validate the endogenous components of breast milk in the MAMA study. 2003-2006

Technical Advisor, US EPA Cooperative Agreement CR-83150601-0 with Penn State University to monitor PBDEs in human milk 2003-present

Co-chair, Society of Toxicology symposium entitled “Endocrine Disruptor Exposures and Puberty”, Salt Lake City, UT, March 2003

Invited Panelist, Office of Women’s Health Forum, Washington, D.C., “Workshop on Breast Cancer and the Environment” June 2003

Invited Observer, Serono Symposium, Chicago, IL, “Role of Environmental Factors on the Onset and Progression of Puberty Expert Panel Workshop” (declined panelist invitation, attended as observer). November 2003

Chair, Exposure Working Group, “Expert Panel on Human Milk Surveillance and Biomonitoring for Environmental Chemicals in the United States”, Hershey, PA, September 2004.

Chair, Society of Toxicology symposium entitled, “Environmental Effects on Breast Cancer Susceptibility”, New Orleans, LA, March 2005

OPPTS Program Office Briefing – Atrazine; April 2005

Invited Panelist, International Cancer Cohort Workshop, Washington, D.C., National Children’s Study, Sept. 2005

Consultant to NIEHS/NIH grant – PI lead, B. Paige Lawrence, University of Rochester, NY (R01 ES013958; awarded 8/05)

Chair, Society for the Study of Reproduction symposium entitled, “Effects of the Environment and Nutrition on Development and Female Reproduction”, Quebec City, Quebec,

Canada. July 2005

OPPT Program Office Briefing – PFOA; December 2005

Scientific Reviewer for NIEHS K23 awards; December 2005

Consultant to NIEHS grant – PI lead, Beth Vorderstrasse, University of Washington, Pullman, WA (R21 ES14422-01, awarded 1/06)

Invited Expert Panelist, Raleigh, NC, “NTP’s Rodent Models for Hormonally-Induced Reproductive Tumors Workshop” – served on the Mammary Gland Panel. May 2006

Biology Expert on the oversight committee (Working Group) for the NIEHS-funded Breast Cancer and the Environment Research Centers (BCERC) multi-center grants Nov 2006-present

Elected Councilor for the SOT Reproductive and Developmental Toxicology Specialty Section (RDTSS) January 2007-March 2009

Scientific Reviewer for SEERAD Science and Analysis Group: The Effect of the Environment on Human Health (EHH) Initiative Peer Review. SEERAD EHH grants (Scottish Executive, Environment and Rural Affairs Department), Edinburgh, Scotland; April 2007

Invited Consultant – California Breast Cancer Research Program, Special Research Initiatives, May 2007-present

Invited Reviewer – State of the Evidence 2008, Bi-annual document focused on progress in the field of environmental connections to breast cancer. Edited by the Breast Cancer Fund.

Writer/Grader for Toxicology Curriculum Comprehensive exams for predoctoral students– May 2007

Chair, Society of Toxicology symposium entitled, "Chlorotriazine herbicides and their common degradation products of concern: Disposition and Potential Health Effects". Seattle, WA. March 2008

Invited External Scientific Reviewer; NIEHS Superfund grants. Sept 24-27, 2007. Chapel Hill, NC

Invited External Scientific Reviewer; Center for Environmental Health and Susceptibility (CEHS) Pilot Project Proposals, University of North Carolina-Chapel Hill. January, 2008

US EPA Representative to the Developmental and Reproductive Toxicology (DART) Technical Committee at the ILSI Health and Environmental Sciences Institute. February 2008-present

OW Program Office Briefing – Atrazine and metabolites; February 2008

OPPT Program Office Briefing – Atrazine and metabolites and SOT activities; March 2008

OW & OPPT Program Office Briefing – Atrazine metabolites; May 22, 2008

Invited External Scientific Reviewer; NIEHS Superfund grants. Reproductive/Endocrine expertise. Nov 5-8, 2008. Chapel Hill, NC

Co-chair session on Pharmacokinetics and Alternative Animal Models at New Directions in Toxicology Testing Workshop. Developmental and Reproductive Toxicology (DART) committee of the ILSI HESI. Washington, D.C., April 2009

Invited Grant Review Leader - California Breast Cancer Research Program, Special Research Initiatives, August 2008

Medical Research Centers Grant review – South Africa; Reproductive/Endocrine Expertise in August, 2009

National Institute of Environmental Health Sciences SEP Bisphenol A grant review panel, Chapel Hill, September 2009

Invited Expert - CBCRP Breast Cancer Approaches – Green Chemistry Initiative. Development of tiered testing approach to identify breast carcinogens or developmental toxicants. April and Sept 2009

Invited external evaluator - PFAA research evaluation meeting – 3M, Minneapolis, MN. Sept 2009

International Workshop Chair - Mammary Gland Evaluation and Risk Assessment Workshop and mammary gland round robin evaluation. Oakland, CA. November 2009

International Session Chair for SOT-sponsored PPTOXII Workshop – “Environmental Influences and Developmental Origins of Cancer”, Miami Beach, FL. December 2009

Debate Moderator and Grader – NC Central University, April 19, 2010. “Atrazine Risk” – Advanced Biology students

Trained RTI International contract lab in mammary gland removal and whole mount preparation for upcoming NTP studies. April 21 & 23, 2010

Office of Prevention, Pesticides & Toxic Substances and Office of Water: Scientific Advisory Board preparation– Mammary glands and atrazine exposure. May 6, 2010

Writer/Grader for Toxicology Curriculum Comprehensive exams for predoctoral students– May 2010

Congressional and Senatorial briefing – President’s Cancer Panel follow-up on breast cancer. Invited by Breast Cancer Fund (DECLINED due to conflict). May 21, 2010

NC Dept of Environmental and Natural Resources, Division of Air Quality, Scientific Advisory Board briefing on low dose PFOA publications. May 25, 2010

Grant Review Chair. California Breast Cancer Research Program, Special Research Initiatives. Epidemiological cohorts and early life exposures. August 2010

EPA Scientific Advisory Panel for Atrazine – present work on atrazine and mammary gland effects. Sept. 14-15, 2010

Inter-Agency Breast Cancer and the Environment Research Coordinating Committee – NIEHS voting representative July 1, 2010-June 30, 2014

OECD and US EPA Extended One-Gen Reproductive Toxicology test guidelines – international lead on mammary gland evaluation validation. Oct. 2010- present

Expert Panel Participant – Eunice Kennedy Shriver National Institute of Child Health and Human Development Scientific Vision Workshop on the Environment. March 10-11, 2011

Expert Panel Participant- Center for Disease Control & Prevention workshop on Cancer Prevention in Pre-adolescence and Adolescence. August 20-21, 2011

Instructor – Collaborative on Health and the Environment (CHE) and Commonwealth: Environmental Health Science and Breast Cancer, May 2-4, Sept 27-29, and November 7-9, 2011, March 14-16, 2012. Bolinas, CA

Expert Testimony on PFOA research – NC Scientific Advisory Board for Water Contaminants. April and May 2012

Grant reviewer - California Breast Cancer Research Program’s Etiology, Prevention and Biology Committee. Kirsten Moysich, Chair. May 15-16, 2012. San Francisco, CA

Grant reviewer – University of Michigan Environmental Health Sciences Core Center – Lifestage Exposures and Adult Disease. NIEHS P30 grants. July 23, 2012

Briefing on PFOA research – DuPont and 3M. Summary of published work on PFOA by Fenton Lab. NIEHS, RTP, NC. October 2012

Briefing – NTP Management – on progress in mammary gland whole mounts and evaluation.
Keystone, NIEHS. December 2012

Invited Expert – Approaches to Improving the Risk Assessment of Persistent, Bioaccumulative and Toxic (PBT) Chemicals in Breast Milk Expert Workshop. US EPA, RTP, NC.
October 24-26, 2012

Instructor – Collaborative on Health and the Environment (CHE) and Commonwealth:
Reproductive & Environmental Health Science Training, November 12-15, 2012.
Bolinas, CA

Grant reviewer – Ohio Cancer Research Associates – Breast Cancer and the Environment. May, 2013

Grader for Curriculum in Toxicology comprehensive exams for predoctoral students– July 2013

Invited Expert – Doctoral Thesis Defense Reviewer for Karen Riiber Mandrup. Danish Technical University, National Food Institute. Soborg, Denmark. August 9, 2013

Expert Reproductive Toxicologist – Canine Lifetime Health Project. Joint collaborative project with Morris Animal Foundation and Colorado State University. Oct 2102, assigned to the Scientific Steering Committee as the Toxicology/Environment Strategy Advisor. April 2011-present

Invited Expert – Environment & Disparities Strategy Advisor to the California Breast Cancer Prevention Initiative. California Breast Cancer Research Program. Oakland, CA. Feb 25-27, 2013; May 28, 2013; Sept 25, Oct 24 and Nov 22, 2013

Grant reviewer - California Breast Cancer Research Program’s Etiology, Prevention and Biology Committee. Leena Hilakivi-Clarke and Fredika Robertson, Co-Chairs. February 17-18, 2014. San Francisco, CA

INVITED LECTURES AND SEMINARS:

1. Canadian Association of Animal Breeders Workshop on Artificial Insemination, November 1989. “A sensitive, repeatable assay for measuring DNA in bull sperm.” Calgary, Alberta and Guelph, Ontario.
2. FASEB Annual Meeting, 1993. “Protein kinase C mediation of prolactin down-regulation of EGF-stimulated signaling events in mouse mammary epithelial cells.” San Francisco, CA.
3. Department of Biochemistry and Molecular Biology, Mayo Clinic, July 1992. “Prolactin regulation of epidermal growth factor-stimulated cell signaling events in mouse mammary epithelial cells.” Rochester, MN.
4. Lombardi Cancer Center, Georgetown University, August 1992. “Prolactin regulation of epidermal growth factor-stimulated cell signaling events in mouse mammary epithelial cells.” Washington, D.C.
5. Reproductive Endocrinology Program, M.D. Anderson Cancer Center, September, 1992. “Prolactin regulation of epidermal growth factor-stimulated cell signaling events in mouse mammary epithelial cells.” Houston, TX.
6. Cancer Biology Unit, University of Michigan, September 1992. “Prolactin regulation of epidermal growth factor-stimulated cell signaling events in mouse mammary epithelial cells.” Ann Arbor, MI.
7. Lineberger Comprehensive Cancer Center Seminar series, UNC-Chapel Hill, October,

1993. "Regulation of Epidermal Growth Factor." Chapel Hill, NC.
8. Lineberger Comprehensive Cancer Center Work in Progress Seminars, UNC-Chapel Hill, January 1997. "Sequences regulating cell-specific EGF gene expression." Chapel Hill, NC.
 9. Application of DNA Microarrays to Toxicology, January 1999. NHEERL Workshop, U.S. EPA. "Gene expression during breast development." RTP, NC.
 10. Triangle Endocrine Disruptors Group, U.S. EPA. December 1999. "Early adverse effects of prenatal exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) in the rat mammary gland." RTP, NC.
 11. Dioxin 2000 Meeting, August 2000. "Adverse effects of TCDD on mammary gland development in Long Evans rats: A two generational study." Monteray, CA.
 12. Society of Toxicology, March 2001. "Environmental Toxicants and Disrupted Mammary Gland Development: The window of susceptibility." In: Breast Cancer: Issues in Screening and Testing of Potential Human Carcinogens. San Francisco, CA.
 13. Environmental Mutagen Society, September 2001. "Environmental Toxicants and Disrupted Mammary Gland Development: The window of susceptibility". RTP, NC.
 14. Environmental Endocrine Disruptors, December 2001. "Role of Developmental Exposures to Endocrine Disruptors in Cancer". (Presented by Linda Birnbaum). Lisbon, Portugal.
 15. Lab-On-A-Chip Conference, January 2002. "Use of DNA Arrays in Environmental Toxicology". (Presented by John Rockett). Switzerland.
 16. Environmental Health Sciences Center, University of Wisconsin-Madison. January 2002. "TCDD-Mediated Changes in Mammary Gland Structure and Function: Involvement of EGF-Receptor Ligands". Madison, WI.
 17. University of Illinois-Chicago, Environmental Health Program, February, 2002. Chicago, IL. "Role of Developmental Exposures to Endocrine Disruptors in Cancer". (Presented by Linda Birnbaum). Chicago, IL.
 18. North Carolina Central University, Toxicology Program, March 2002. "Environmental Toxicants and Disrupted Mammary Gland Development: Breast Cancer Susceptibility". Durham, NC.
 19. National Cancer Institute, "Gene/Environment Interactions in Children's Health," March 2002. "Developmental Exposures to Endocrine Disruptors". Bethesda, MD.
 20. Society for the Study of Reproduction, July 2002. "Effects from Gestational Exposure to a Mixture of Atrazine and its Biological Metabolites in Male Long Evans Rats." Baltimore, MD.
 21. Dioxin Meetings, August 2002. "Role of Developmental Exposure to Endocrine Disruptors in Cancer." (Presented by L. Birnbaum), Barcelona, Spain.
 22. Environmental Protection Agency, Office of Pesticides and Pollution Workshop on Environmental Influences on Puberty, October 2002. "Effects of Environmental Toxicants during Critical Periods of Mammary Development." RTP, NC.
 23. Society of Toxicology, March 2003. Session on Endocrine Disruptor Exposures and Puberty. "Mammary Gland Development: Early Life Effects from the Environment." Salt Lake City, UT.
 24. University of WI-Madison, ERPP Distinguished Alumni seminar, July 2003. "The Alumni Perspective: Careers in Government." Madison, WI.
 25. National Children's Study Pilot Review Update, November 2003. "Methods Advancement

- in Milk Analysis (MAMA Study).” RTP, NC.
26. Reproductive Toxicology Division, Work In Progress, December 2003. “Exposure Parameters and Critical Periods Necessary for Atrazine-Induced Mammary Gland Delays in Female Rat Offspring.” RTP, NC.
 27. Fifth Annual Conference on Sex and Gene Expression (SAGE V), March 2004. “Long-term effects of dioxin on reproductive development and sex determination.” Winston-Salem, NC.
 28. Environmental Endocrine Disruptors Gordon Conference, June 2004. “Long-term effects of prenatal exposure to EDCs on the mammary gland of the female rat.” Colby-Sawyer College, New London, NH.
 29. Washington State University, Center for Reproductive Biology, July 2004. “Prenatal environmental exposures and altered mammary tissue development.” Pullman, WA.
 30. Atrazine Workshop, April 2005. “Gestational Atrazine Exposure in the Rat: Effects on Mammary Gland Development and Function in Multiple Generations.” Iowa City, IA.
 31. US EPA Science Forum 2005, May 2005. “Methods Advancement for Milk Analysis: Successful Inter-Agency and NHEERL Collaborations.” Washington D.C.
 32. Endocrine Society EDC Forum, June 2005. “Novel effects of dioxin on breast development, function, and susceptibility to cancer.” San Diego, CA.
 33. International Conference on Environmental Mutagens, September 2005. “Environmental Estrogens and Cancer.” San Francisco, CA.
 34. International Society for Exposure Analysis, November 2005. “Milk Monitoring for Environmental Contaminants.” Tucson, AZ.
 35. Perfluoroalkyl Acid (PFAA) Days, July 2006. “Effects of PFOA developmental exposure on reproductive tissues.” RTP, NC.
 36. American Association of Birth Centers, 22nd Annual Meeting, September 2006. “Environmental Components Found in Breast Milk: Findings from the MAMA Study.” Valley Forge, PA.
 37. NIEHS, Epidemiology Division, October 2006. “Immediate and long-term health impacts of prenatal exposure to PFOA in mice.” RTP, NC.
 38. Society of Toxicology, March 2007. Developmental Toxicity: Genomic and Non-Genomic Bases. “Long-term health effects of PFOA after prenatal and lactational exposure in mice.” Charlotte, NC.
 39. Frontiers in Environmental Science seminar series, NIEHS, June 2007. “The mammary gland as a sensitive tissue for detecting effects of environmental components.” RTP, NC.
 40. Federal-State Toxicology and Risk Analysis Committee (FSTRAC); Water-related Human Exposure Research and Analyses Symposium, October 2007. “Immediate & Long-term Health Impacts of Prenatal Exposure to PFOA in Mice.” Durham, NC.
 41. Breast Cancer and the Environment Research Centers (BCERC) Annual Meeting, November 2007. “The Mammary Gland as a Sensitive Tissue for Detecting Effects of Environmental Components.” Cincinnati, OH.
 42. Society of Toxicology Workshop on Chlorotriazines and their Metabolites, March 2008. “Disposition and health effects of chlorotriazine metabolites in the pregnant rat and her offspring.” Seattle, WA.
 43. Office of Environmental Health Hazard Assessment (OEHHA), California Environmental Protection Agency. Distinguished Lecture Series: Advances in Toxicology and Risk

- Assessment, April 2008. "Environmental Influences on Mammary Gland Development and Function." Sacramento, CA.
44. European Congress on Obesity, May 2008. "Exposure parameters and doses of perfluorooctanoic acid (PFOA) required for body weight effects in mice." Geneva, Switzerland.
 45. Perfluoroalkyl Acids Workshop II, US EPA, June 2008. "Exposure parameters and doses of perfluorooctanoic acid (PFOA) required for body weight effects in mice." RTP, NC. [doi:10.1016/j.reprotox.2008.11.010](https://doi.org/10.1016/j.reprotox.2008.11.010)
 46. Environmental Endocrine Disruptors Gordon Conference, June 2008. "The Mammary Gland: A Tissue Sensitive to the Latent Effects of EED Developmental Exposures." Waterville Valley Resort, NH.
 47. ISES/ISEE Joint Annual International Meeting, October 2008. "Perfluoroalkyl Acids in the Serum and Milk of Breastfeeding North Carolina Women." Pasadena, CA.
 48. ISES/ISEE Joint Annual International Meeting, October 2008. "Brominated Flame Retardant Levels in Human Milk and Serum from MAMA Study Participants: Preliminary findings from correlations over time and matrix, and with questionnaire results." Pasadena, CA.
 49. President's Cancer Panel - Pesticides, NCI, October 2008. "The Mammary Gland: A Tissue Sensitive to Environmental Exposures." Indianapolis, IN.
 50. Mammary Gland Evaluation and Risk Assessment Workshop, November 2009. "Mammary Gland Round Robin and Assessment of Adverse Outcomes." Oakland, CA.
 51. NIEHS, National Toxicology Program, Cellular and Molecular Pathology Branch Seminar, February 16, 2010. "Early Life Environmental Exposures: Lifelong Impact on Mammary Gland Development and Function." RTP, NC.
 52. New Jersey Department of Health briefing on Fenton's Mammary Gland PFAA manuscripts. February 16, 2010.
 53. American Association for the Advancement of Science (AAAS) Annual Meeting, February 19, 2010. "Early Life Exposures: Lifelong Impact on Mammary Gland Development and Function." San Diego, CA.
 54. North Carolina A&T State University, Life & Physical Sciences Research Symposium. Ethnic Variation in Cancer: Prevention, Diagnosis and the Search for a Cure, February 26, 2010. "Early Life Environmental Exposures: Lifelong Impact on Mammary Gland Development and Function." Greensboro, NC.
 55. NIH Office of Research on Women's Health. Environmental Exposures and Women's Health Seminar series, March 2, 2010. "Early Life Environmental Exposures: Lifelong Impact on Mammary Gland Development and Function." Bethesda, MD.
 56. Office of Prevention, Pesticides & Toxic Substances and Office of Water research update seminar, March 4, 2010. "Mammary gland effects following atrazine exposure."
 57. NC Central University, Department of Biology. Invited seminar, April 12, 2010. "Atrazine Effects and Mechanisms of Action in Mammals – Mammary tissue as a sensitive end point."
 58. Brown University Department of Pathology. Invited seminar series speaker, April 15, 2010. "Mammary gland whole mounts as a useful determinant of developmental abnormalities following prenatal environmental exposures in rodents." Providence, RI.
 59. Mid-Atlantic Society of Toxicology Annual Meeting guest speaker, May 13, 2010. "Low

- dose PFOA exposure during late gestation in CD-1 mice induces multiple adult health outcomes.”
60. NIEHS, Division of Intramural Research, Laboratory of Reproductive & Developmental Toxicology (LRDT) Research Retreat, July 2010. Invited Guest. “Early life environmental exposures: Lifelong impact on mammary gland development and function”. Sigma Xi, RTP, NC.
 61. European Teratology Society Annual Meeting, Sept 5-8, 2010. “Mammary gland whole mounts provide valuable information on developmental effects of in utero and early life exposures: Trigger for late life evaluations.” Barcelona, Spain.
 62. US EPA Office of Pesticides Program, Atrazine Scientific Advisory Panel Meeting, Sept 14-15, 2010. “The fetal mammary gland and prostate as sensitive developmental targets for atrazine.” Washington D.C.
 63. Inter-Agency Breast Cancer & Environmental Research Coordinating Committee, Sept 29-Oct 1, 2010. “Update from the National Toxicology Program on Breast Cancer and the Environment.” Washington, D.C.
 64. Inter-Agency Breast Cancer & Environmental Research Coordinating Committee, Sept 29-Oct 1, 2010. “Overview of what we know and don’t know about breast cancer and the environment.” Washington, D.C.
 65. Duke University, Integrated Toxicology & Environmental Health Program, October 8, 2010. “Low dose PFOA exposure during late gestation in CD-1 mice induces multiple adult health outcomes.” Durham, NC.
 66. Organisation for Economic Co-operation and Development (OECD) and US EPA joint meeting on the Extended One-Generation Reproductive Toxicology (EOGRT) test guideline, October 20, 2010. “The fetal mammary gland as a sensitive developmental target for EDCs.” OPP Offices, Washington, D.C.
 67. Society of Toxicology of Canada, December 6, 2010. “Low-dose developmental PFOA exposure in CD-1 mice affects multiple tissues resulting in adverse adult health outcomes.” Montreal, Canada.
 68. North Carolina State University, Department of Environmental and Molecular Toxicology, April 12, 2011. “Early Life Environmental Exposures: Lifelong Impact on Mammary Gland Development and Function.” Raleigh, NC.
 69. Collaborative on Health and the Environment (CHE) – Breast Cancer and the Environment. Conference broadcast on July 21, 2011.
 70. CDC’s Division of Cancer Prevention and Control. Identifying Opportunities for Cancer Prevention during Preadolescence and Adolescence. August 9-10, 2011.
 71. CDC’s Division of Cancer Prevention and Control. Breast Cancer in Young Women, September 12-14, 2011. “Environmental Chemicals Affecting Breast Cancer Risk.”
 72. AACR Cancer Prevention Forum, October 23-25, 2011. “Life-stage susceptibility and low dose response as important factors in carcinogen identification.” Boston, MA.
 73. East Carolina University, Department of Pharmacology & Toxicology, October 26, 2011. “Low dose PFOA exposure during late gestation in CD-1 mice induces multiple adult health outcomes.” Greenville, NC.
 74. Illinois State University, Department of Physiology, November 16, 2011. “Early Life Environmental Atrazine Exposures: Lifelong Impact on Mammary Gland Development and Function.” Bloomington-Normal, IL.

75. Collaborative on Health and the Environment (CHE) – IOM report: Comments and suggestions for the future. Conference broadcast on December 16, 2011.
76. Environmental Endocrine Disruptor Gordon Conference, June 3-8, 2012. Invited Speaker. “Endocrine Disruptors, Breast Development, and Breast Milk.” Mount Snow, VT.
77. Teratology Society Annual Meeting, June 25-28, 2012. Invited Speaker. “Early Life Environmental Exposures: Lifelong Impact on Mammary Gland Development and Function.” Baltimore, MD.
78. NIEHS Receptor Mechanisms Discussion Group Series, August 7, 2012. Invited Speaker. “Mammary gland as a sensitive target tissue for endocrine disruption.” NIEHS, RTP, NC.
79. 2012 CDC Cancer Conference session titled “Starting younger: lowering cancer risk beginning with children and adolescents,” August 22, 2012. Invited Speaker. “Environmental impact on breast development during puberty: What lies ahead?” Washington, D.C.
80. Toxicology/Environment Strategy Advisor – Morris Animal Foundation and Colorado State University – Canine Lifetime Health Project, October 2-3, 2013. Denver, CO.
81. American Public Health Association 140th Annual Meeting, October 27-31, 2012. Invited Speaker: “Early Life Exposures to Endocrine Disrupting Compounds: Potential for Cancer Burden.” San Francisco, CA.
82. Breast Cancer and the Environment Research Program (BCERP) Annual Meeting, November 15-16, 2012. Invited Speaker. “Breast Cancer and Lifestage Susceptibility.” San Francisco, CA.
83. Public Interest Partners 2 Meeting, December 14th, 2012. Representing NTP. “The New and Improved NTP”. NIH, Bethesda, MD.
84. Women’s Reproductive Environmental Health, “Multidisciplinary Project on DES and Metabolomic Markers – The Study Design,” January 30th, 2013. NIEHS, RTP, NC.
85. 2nd Collaborative Summit on Breast Cancer Research, January 31- February 2, 2013. Invited Speaker. “Update on Laboratory-Based Studies of Environmental Exposures and Breast Cancer Risk.” Gaithersburg, MD.
86. Danish Technical University, National Food Institute, August 8, 2013. Invited Speaker. “Low dose PFOA exposure during late gestation in CD-1 mice induces multiple adult health outcomes.” Soborg, Denmark.
87. NIEHS Laboratory of Toxicology and Pharmacology Seminar Series, Nov 7, 2013. Invited Speaker. “BPA and the Mammary Gland.” RTP, NC.

ABSTRACTS, POSTER PRESENTATIONS, INVITED COMMENTARY & INTERVIEWS

1. Bollig (**Fenton**), **SE**, CM Cowan, GR Gilbert, RW Lenz, and RL Ax. 1988. Repeatability of a DNA assay performed in three artificial insemination organizations. *J. Dairy Sci.* 71(Suppl. 1):195. (Abstract 229).
2. Bollig (**Fenton**), **SE**, CM Cowan, ME Bellin, T Coyle, and RL Ax. 1988. A DNA assay to quantitate concentrations of bull sperm. *11th International Congress on Animal Reproduction and Artificial Insemination*, Dublin, Ireland. (Abstract 232)
3. Bollig (**Fenton**), **SE**, DJ Miller, ME Bellin, and RL Ax. 1988. Heparin, but not N-

- desulfated heparin, enhances cumulus expansion of mouse and cow oocytes in serum-free medium. *Proceedings of the Seventh Ovarian Workshop*, Seattle, WA. (Abstract 67).
4. Bellin, ME, **SE Fenton**, and RL Ax. 1989. Insulin, insulin-like growth factor and follicle stimulating hormone differentially stimulate production of glycosaminoglycans by porcine granulosa cells in vitro. *71st Annual Meeting of the Endocrine Society*, Seattle, WA. (Abstract 123).
 5. **Fenton SE** and RL Ax. 1990. Glycosaminoglycans enhance cumulus expansion and hyaluronic acid production, but not fertilization success of bovine oocytes in vitro. *23rd Annual Meeting of the Society for the Study of Reproduction*. Knoxville, TN (Abstract 147).
 6. **Fenton SE** and LG Sheffield. 1990. Hormonal modulation of epidermal growth factor (EGF) expression in mouse mammary tissue. *J. Cell Biol.* 111(Part 2):98a (Abstract 541).
 7. **Fenton SE** and LG Sheffield. 1992. Prolactin antagonism of EGF-induced DNA synthesis in mammary epithelial cells. *FASEB J.* 6:A1184. (Abstract 1432).
 8. **Fenton SE** and LG Sheffield. 1992. Prolactin antagonism of epidermal growth factor (EGF)-stimulated cell signaling events in mouse mammary epithelial cells. *Mol. Biol. Cell* 3:238A. (Abstract 1379).
 9. **Fenton SE** and LG Sheffield. 1991. Prolactin antagonism of EGF-induced DNA synthesis in mouse mammary epithelial cells. *Proceedings of the 1st Annual ERPP Symposium*, University of Wisconsin-Madison.
 10. **Fenton SE** and LG Sheffield. 1992. Prolactin antagonism of epidermal growth factor (EGF)-stimulated cell signaling events in mouse mammary epithelial cells. *Proceedings of the 2nd Annual ERPP Symposium*, University of Wisconsin-Madison.
 11. **Fenton, SE** and LG Sheffield. 1993. Identification of prolactin-induced tyrosine phosphorylated 125 kDa protein as focal adhesion kinase. *American Physiological Society Conference on Signal Transduction and Gene Regulation*. San Francisco, CA.
 12. Sheffield LG and **SE Fenton**. 1993. Prolactin inhibits epidermal growth factor-stimulated 42 kDa MAP kinase tyrosine phosphorylation and activity. *American Physiological Society Conference on Signal Transduction and Gene Regulation*. San Francisco, CA.
 13. **Fenton, SE**, NS Groce, and DC Lee. 1994. Transcriptional activity of the epidermal growth factor gene. *Proceedings of the American Association for Cancer Research Meeting on Transcriptional Control of Cell Growth and Differentiation*, Chatham Bay, MA.
 14. Greiner, S.N., G.L. Youngblood, and **S.E. Fenton**. 2000. Estrogen-independent effects of atrazine (ATR) on mammary gland (MG) development in rats. *Toxicologist* 54(1):332.
 15. Youngblood, G.L., J.T. Hamm, L.S. Birnbaum, and **S.E. Fenton**. 2000. Gestational exposure of Long Evans rats to 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) leads to stunted mammary epithelial development in female offspring. *Toxicologist* 54(1):135.
 16. **Fenton, S.E.**, Hamm, J.T. Birnbaum, L.S. and G.L. Youngblood 2000. Adverse effects of TCDD on mammary gland development in Long Evans rats: A two generational study. *20th International Symposium on Halogenated Environmental Organic Pollutants & POPs*. Dioxin 2000, August 13-17, Monteray, CA.
 17. **Fenton, S.E.** and G.L. Youngblood. 2000. Gestational exposure to atrazine induces prostatitis and epididymal fat pad masses in Long Evans male offspring. *Biol. Reprod.* 62(Suppl.1):p.187.
 18. **Fenton, S.E.**, B.D. Abbott, P.L. Bryant, and A.R. Buckalew. 2001. Roles of Epidermal

- Growth Factor (EGF) and Transforming Growth Factor-alpha (TGF- α) in Mediation of Dioxin (TCDD)-Induced Delays in Development of the Mouse Mammary Gland. Meeting of the Endocrine Society, Denver, CO.
19. **Fenton, S.E.** and C.C. Davis. 2002. Atrazine Increases Dimethylbenz[a]anthracene-Induced Mammary Tumor Incidence in Long Evans Offspring Exposed *In Utero*. *Toxicologist* 66: 185.
 20. Rayner, J.L. and **S.E. Fenton**. 2002. *In Utero* Exposure to Atrazine Induces Delayed Puberty of Long Evans Rats: Dam-mediated effects in females. TCRB, NIEHS; NCSOT, NIEHS and *Toxicologist* 66:371.
 21. Moon, H-J., S.Y. Han, C.C. Davis, and **S.E. Fenton**. 2002. Nonylphenol and Atrazine Induce Inverse Effects on Mammary Gland Development in Female Rats Exposed *In Utero*. *Toxicologist* 66:373.
 22. Harrouk, W.A., M.B. Rosen, **S.E. Fenton**, J.E. Schmid, G.L. Kimmel and C.A. Kimmel. 2002. Effects of Single Components (Hyperthermia & Boric Acid) and Mixtures on Mid-organogenesis Stage Rat Embryos Using Microarray Analysis. *Toxicologist* 66:337.
 23. Davis, C.C., S.N. Greiner, G.L. Youngblood and **S.E. Fenton**. 2002. Effects of Gestational Exposure to an Environmentally-Based Mixture of Atrazine and its Metabolites in the Male Rat Offspring. Society for the Study of Reproduction, Bethesda, MD.
 24. Bartolucci, E., **S.E. Fenton**, and L.You. 2002. Gene Expression Profiles in the Mammary Gland of Male Rats Exposed to Endocrine-Active Compounds: Analyses with Two gene Arrays and Two Statistical Tools. (NCSOT, NIEHS; SOT) *Toxicologist* 66:463.
 25. Rasmussen, N.T., T.M. Lin, **S.E. Fenton**, B.D. Abbott, and R.E. Peterson. 2002. Altered Sensitivity of the Mouse Fetus to Impaired Prostatic Bud Formation by Dioxin: Influence of Genetic Background and Null Expression of TGF- α and EGF. *Toxicologist* 66:168.
 26. Birnbaum, L.S. and **S.E. Fenton**. 2002. Role of Developmental Exposure to Endocrine Disruptors in Cancer. 22nd International Symposium on Halogenated Environmental Organic Pollutants and POPs. Dioxin Meeting, August 11-16, 2002, Barcelona, Spain.
 27. Rayner, J.L. and **S.E. Fenton**. 2003. Exposure Parameters for Delayed Puberty and Mammary Gland Development in Long Evans Rats Exposed *In Utero* to Atrazine. *Toxicologist* 72:77.
 28. Enoch, R., S. Greiner, G. Youngblood, C. Davis, and **S.E. Fenton**. 2003. Effects from Gestational Exposure to a Mixture of Atrazine and its Biological Metabolites in Male Long Evans Rats. *Toxicologist* 72:275.
 29. Lawrence B.P., B.A. Vorderstrasse, **S.E. Fenton**, and A.A. Bohn. 2003. Exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) impairs Mammary Gland Differentiation in Pregnant c57Bl/6 Mice and Prevents Pup Survival. *Toxicologist* 72:230.
 30. Gallagher, J., T. Lehman, R. Modali, S. Rhoney, M.Clas, J. Inmon, J. Rockett, D. Dix, C. Mamay, **S. Fenton**, S. McMaster, S. Barone, P. Mendola, R. Sams. 2004. Validation of Non-Invasive Biological Samples: Pilot Projects Relevant to the National Children Study. *Toxicologist* 78(S1):384. 43rd Annual Society of Toxicology, Baltimore, MD.
 31. Khan, M., **S.E. Fenton**, A.Swank, G. Knapp, S. Hester, D. Wolf. 2004. An Additive Effect of a Mixture of Ammonium Perchlorate and Sodium Chlorate on Pituitary-Thyroid Axis in Male F-344 Rats. *Toxicologist* 78(S1):282. 43rd Annual Society of Toxicology, Baltimore, MD.

32. Rayner, J. and **S.E. Fenton**. 2004. Detection of a Critical Period Necessary for Atrazine-Induced Mammary Gland Delays in Rats. *Toxicologist* 78(S1):218. 43rd Annual Society of Toxicology, Baltimore, MD. First Place-Best Student Presentation Award- Reproductive and Developmental Toxicology Specialty Section.
33. Vorderstrasse, B. **S.E. Fenton**, A.A. Bohn, J.A. Cundiff, and B.P. Lawrence. 2004. A novel effect of dioxin: exposure during pregnancy severely impairs mammary gland differentiation *Toxicologist* 78(S1):218. 43rd Annual Society of Toxicology, Baltimore, MD.
34. **Fenton, S.E.** and J.L. Rayner. 2005. Influence of Endocrine Disrupting Compounds (EDCs) on Mammary Gland Development and Tumor Susceptibility. *Toxicologist* 84(S1):61. 44th Annual Society of Toxicology, New Orleans, LA.
35. **Fenton, S.E.** 2005. Environmental Factors Affecting Breast Cancer Susceptibility. *Toxicologist* 84(S1):61. 44th Annual Society of Toxicology, New Orleans, LA.
36. Rayner, J.L. and **S.E. Fenton**. 2005. Late Gestational Atrazine Exposure Alters Maternal Nursing Behavior in Rats. *Toxicologist* 84(S1):230. 44th Annual Society of Toxicology, New Orleans, LA.
37. Hines, E.P., R. Barbee, M. Blanton, M.S. Pooler, and **S.E. Fenton**. 2005. Effects of Atrazine and an Atrazine Metabolite Mixture on Differentiated Mammary Epithelial Cell Milk Protein Production in Culture. *Toxicologist* 84(S1):280. 44th Annual Society of Toxicology, New Orleans, LA.
38. **SE Fenton**, E.P. Hines, G. Hatch, D. DeMarini, J. Gallagher, D. Barr, R. Wang, A. Calafat, A. Sjodin. 2005. Methods Advancement for Milk Analysis: Successful Inter-Agency and NHEERL Collaborations. US EPA Science Forum. Washington D.C., May 2005.
39. Hines, EP, R Barbee, AM Calafat, MJ Silva, JA Reidy, RY Wang, LL Needham, and **SE Fenton**. 2005. Measurement of Phthalate Metabolite Levels in Human Milk: Contribution from plastics in breast pumps, storage bottles and bags. 2005 ENDO EDC Forum, San Diego, CA.
40. Hines, EP, Rayner, J, Barbee, R, Heidenfelder, B, Moreland, RA, Valcour, A, Gallagher, JE, **Fenton, SE**. 2006. Reliable Assays for Determining Endogenous Components of Human Milk. *Toxicologist* 90(S1):83. 45th Annual Society of Toxicology, San Diego, CA. Reproductive and Developmental Toxicology Specialty Section Student Post-doctoral Fellow Travel Award and the Eleanor Roosevelt Poster of Substance Award (local EPA).
41. **Fenton, SE**, Rayner, J, Barbee, R, Heidenfelder, B, Levine, AM, Iordanidis, L, Williams, J, Gallagher, JE, Hines, EP. 2006. Comparison of Metals in Human Milk and Urine Using Trace Multielement Analyses. *Toxicologist* 90(S1):425. 45th Annual Society of Toxicology, San Diego, CA.
42. SS White, JL Rayner, EP Hines, JR Thibodeaux, and **SE Fenton**. 2006. Gestational PFOA Exposure of Mice is Associated with Altered Mammary Gland Development in Dams and Female Offspring. *Toxicologist* 90(S1):82. 45th Annual Society of Toxicology, San Diego, CA. Golberg Travel Award Recipient – UNC TOX Curriculum.
43. JL Rayner, EP Hines, R Barbee, JV Nguyen, P Panuwet, DB Barr, RD Whitehead, and **SE Fenton**. 2006. Atrazine Disposition in Pregnant and Lactating Long-Evans Rats *Toxicologist* 90(S1):252. 45th Annual Society of Toxicology, San Diego, CA. Reproductive and Developmental Toxicology Specialty Section Student Travel Award and the Society of Toxicology Graduate Student Travel Support Award.

44. S.S. White, E.P. Hines, JL Rayner, C. Lau, J. Thibodeaux, and **SE Fenton**. 2006. Long-term health effects of mouse pups following gestational exposure to PFOA. The Endocrine Society Meeting, Boston, MA.
45. EP Hines, R Barbee, JL Rayner, AM Calafat, and **SE Fenton**. 2006. Measurement of Phthalates in Human Milk in the US EPA MAMA Study. Oral Presentation. Endocrine Society Annual Meeting, Boston, MA. Mara E. Lieberman Travel Grant.
46. JL Rayner, RR Enoch, D Wolf, and **SE Fenton**. 2006. Atrazine Exposure Parameters Important for Prostate Development of Long-Evans Rat Offspring. The Endocrine Society Meeting, Boston, MA. The Endocrine Society Travel Award Grant
47. J Rogers, C Lau, N Chernoff, **SE Fenton**, B Abbott, E Massaro, B Grey, J Norwood. 2006. Long Term Effects of Adverse Environments During Development: Effects in Adulthood in Rats Exposed to Toxicants or Undernutrition *In Utero*. EPA Science Forum.
48. **SE Fenton**, C. Lau, E.P. Hines, J.R. Thibodeaux, and SS White. 2007. Long-term health effects of PFOA after prenatal and lactational exposure in mice. Society of Toxicology, Contemporary Concepts in Toxicology – Perfluoroalkyls and Related Chemistries: Toxicokinetics and Modes of Action. Arlington, VA.
49. SS White, BD Abbott, EP Hines, CJ Wolf, AM Calafat, Z Kuklennyik, **SE Fenton**. 2007. Respective Contributions of Prenatal and Lactational PFOA Exposures to Altered Mouse Mammary Gland Development. Society of Toxicology, Contemporary Concepts in Toxicology – Perfluoroalkyls and Related Chemistries: Toxicokinetics and Modes of Action. Arlington, VA.
50. JL Rayner, EP Hines, JV Nguyen, P Panuwet, RD Whitehead, DB Barr, **SE Fenton**. 2007. Detection of Atrazine and its Metabolites in Body Fluids of Pregnant and Lactating Long-Evans Rats Following a Late Gestational Exposure. *Toxicologist* 96(S1):118. 46th Annual Society of Toxicology, Charlotte, NC.
51. SS White, BD Abbott, EP Hines, CJ Wolf, AM Calafat, Z Kuklennyik, **SE Fenton**. 2007. Respective Contributions of Prenatal and Lactational PFOA Exposures to Altered Mouse Mammary Gland Development. *Toxicologist* 96(S1):119. 46th Annual Society of Toxicology, Charlotte, NC. Golberg Travel Award Recipient – UNC TOX Curriculum and SOT Student Travel Award.
52. EP Hines, JE Schmid, AM Calafat, X Ye, J Rayner, and **SE Fenton**. 2007. Measurement of Environmental Phenol Levels in the Urine of Lactating Women. *Toxicologist* 96(S1):117. 46th Annual Society of Toxicology, Charlotte, NC.
53. JP Stanko and **SE Fenton**. 2007. Gestational Exposure to the Atrazine Metabolites Diaminochlorotriazine and Hydroxyatrazine Alters Mammary Gland Development in the Long Evans Rat. *Toxicologist* 96(S1):117. 46th Annual Society of Toxicology, Charlotte, NC.
54. C Coburn, JL Rayner, P Kodavanti, and **SE Fenton**. 2007. A Brominated Flame Retardant Mixture, DE-71, Affects Mammary Tissue of Rat Offspring Following Developmental Exposure. *Toxicologist* 96(S1):118. 46th Annual Society of Toxicology, Charlotte, NC.
55. BJ Lew, BA Vorderstrasse, **SE Fenton**, BP Lawrence. 2007. Activation of Aryl Hydrocarbon Receptor (AhR) in Early Pregnancy Decreases Mammary Epithelial Cell Proliferation. American Association for Cancer Research, Los Angeles, CA.
56. EP Hines, SS White, JP Stanko, and **SE Fenton**. 2007. Prenatal Exposure to Low Dose Perfluorooctanoic Acid (PFOA) in Mice Induces Low Developmental Body Weight

- Followed by Adult Onset Obesity that is Not Affected in Ovariectomized Animals. Society for the Study of Reproduction, San Antonio, TX.
57. JP Stanko, R Enoch, JL Rayner, CC Davis, D Wolf, **SE Fenton**. 2007. Effects of Prenatal Exposure to a Low Dose Atrazine Metabolite Mixture on the Reproductive Development of Male Long Evans Rats. Society for the Study of Reproduction, San Antonio, TX.
 58. Hines, E.P., Sjodin A, Patterson, D.G., Jr., Needham, L.L., and **SE Fenton**. 2007. Brominated Flame Retardant Levels in Human Milk and Serum from North Carolina Residents in the US EPA MAMA Study. Public Health Applications of Human Biomonitoring. US EPA, RTP, NC
 59. EP Hines, A Sjodin, D. Patterson, Jr. , LL Needham, and **SE Fenton**. 2007. Brominated Flame Retardant Levels in Human Milk and Serum from North Carolina Residents in the US EPA MAMA Study. International Society for Exposure Analysis (ISEA), Durham, NC.
 60. **Fenton, SE**, J. Rayner, J. Stanko, and D. B. Barr. 2008. Disposition and Health Effects of Chlorotriazine Metabolites in the Pregnant Rat and her Offspring. SOT Annual Meeting, Seattle, WA.
 61. Stanko, J., EP Hines, S. S. White, G. R. Klinefelter, L. F. Strader, J. D. Suarez, and **SE Fenton**. 2008. Reproductive and Developmental Effects of Gestational Exposure to Perfluorooctanoic Acid in Male CD-1 Mice. SOT Annual Meeting, Seattle, WA.
 62. Hines, EP, S. S. White, J. Stanko, and **SE Fenton**. 2008. Adult outcomes of gestational or adult exposure to perfluorooctanoic acid (PFOA) in female CD-1 mice. SOT Annual Meeting, Seattle, WA. RDTSS Trainee Travel Award
 63. White, S. S., E. P. Hines, J. Stanko, and **SE Fenton**. 2008. Consequences of Prenatal PFOA Exposure on Mouse Mammary Gland Growth and Development in F1 and F2 Offspring. SOT Annual Meeting, Seattle, WA. RDTSS Trainee 3rd Place Poster Award
 64. Hines, E.P., Kato, K., Kuklenyik, Z., vonEhrenstein, O., Calafat, A.M., and **SE Fenton**. 2008. Concentrations of Perfluoroalkyl Compounds in the Serum and Milk of Lactating North Carolina Women. Society for the Study of Reproduction's Annual Meeting, Kona, HI.
 65. Hines, E.P., Kato, K., Kuklenyik, Z., vonEhrenstein, O., Calafat, A.M., and **SE Fenton**. 2008. Concentrations of Perfluoroalkyl Compounds in the Serum and Milk of Lactating North Carolina Women. Environmental Endocrine Disruptors Gordon Conference, Waterville Valley, NH. Travel Award Recipient.
 66. White, S.S., Kato, K., Jia, L.T., Basden, B.J., Calafat, A.M., Hines, E.P., Stanko, J.P., Wolf, C.J., Abbott, B.D. and **Fenton, S.E**. 2008. Effects of perfluorooctanoic acid on mouse mammary gland development and differentiation resulting from cross-foster and restricted gestational exposures. Environmental Endocrine Disruptors Gordon Conference, Waterville Valley, NH. Travel Award Recipient
 67. Hines, EP, SS White, JP Stanko, and **SE Fenton**. 2008. Adult Outcomes of Gestational or Adult Exposure to Perfluorooctanoic Acid (PFOA) in Female CD-1 Mice. Perfluoroalkyl Acids Workshop II, US EPA, RTP, NC.
 68. Reiner, JL, MJ Strynar, SF Nakayama, AD Delinsky, L Helfant, JP Stanko, **SE Fenton**, and AB Lindstrom. 2008. Method Development for the Analysis of PFOA in Gestationally Exposed Mice – Serum, Amniotic Fluid, Urine, and Whole Pups. Perfluoroalkyl Acids Workshop II, US EPA, RTP, NC.
 69. White, SS, EP Hines, J Stanko, and **SE Fenton**. 2008. Consequences of Prenatal PFOA

- Exposure on Mouse Mammary Gland Growth and Development in F1 and F2 Offspring. Perfluoroalkyl Acids Workshop II, US EPA, RTP, NC.
70. Hines, EP, EA Gibbs-Flournoy, JP Stanko, R Newbold, W Jefferson, **SE Fenton**. 2009. Testing the Uterotrophic Activity of Perfluorooctanoic Acid (PFOA) in the Immature CD-1 Mouse. SOT Annual Meeting, Baltimore, MD.
 71. Stanko, JP, CC Davis, and **SE Fenton**. 2009. Strain Differences in Dimethylbenz[a]anthracene-Induced Mammary Tumor Incidence in Long Evans and Sprague Dawley Rat Offspring Following Prenatal Atrazine Exposure. American Association for Cancer Research (AACR) Annual Meeting, Denver, CO.
 72. **Fenton, SE**, JL Reiner, SF Nakayama, AD Delinsky, JP Stanko, EP Hines, SS White, AB Lindstrom, MJ Strynar, S-SE Petropoulou. 2009. Disposition of Perfluorooctanoic Acid (PFOA) in Pregnant and Lactating CD-1 Mice and Their Pups. Teratology Society Annual Meeting, Rio Grande, Puerto Rico.
 73. Euling, SY, Gray, L.E. Jr., Stoker, T, **Fenton, S**, Laws, S, Makris, S and Cooper, R. 2009. Puberty Timing As A Sensitive Marker For Endocrine Disruption. SOT PPTOXII Meeting on Fetal Origins of Adult Disease. Miami Beach, FL.
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