

Curriculum Vitae

Personal Data

last updated 1/20/2023

Name: Suzanne E. Fenton, PhD MS U.S. Citizen
Current Title: Lead, Reproductive Endocrinology Group
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Education

Years	Institution	Degree	Specialty
09/84-05/88	University of Wisconsin, Madison, WI.	B.S.	Dairy Science, Natural Science (Pre-vet) Grad w/Highest Distinction; GPA=3.81
06/88-05/90	University of Wisconsin, Madison, WI.	M.S.	Endocrinology & Reproductive Physiology (Gamete Biology)
05/90-05/93	University of Wisconsin, Madison, WI.	Ph.D.	Endocrinology & Reproductive Physiology, Statistics minor (Lactation Biology)

Professional Appointments

Years	Career Tract
Currently (as of 9/1/22)	Lead, Reproductive Endocrinology Group
Division name change	Mechanistic Toxicology Branch, Division of Translational Toxicology (DTT), National Institute of Environmental Health Sciences (NIEHS), National Institute of Health
Jan 2021-Sept 2022	Mechanistic Toxicology Branch, Division of the National Toxicology Program (DNTP), Divisional Reorganization NIEHS, NIH
May 2011-Jan 2021	Group Leader, Reproductive Endocrinology (Supervisory Position) NTP Laboratory, DNTP, NIEHS
Sept 2009-May 2011	Reproductive Endocrinologist
Divisional Realignment	Cellular & Molecular Pathology Branch, National Toxicology Program, NIEHS
Sept 2003-Sept 2009	Research Biologist (Supervisory Position)
Divisional Realignment	Developmental Biology Branch, Reproductive Toxicology Division (RTD), US Environmental Protection Agency (US EPA)
Sept 1998-Sept 2003	Research Biologist, US EPA, RTD, Endocrinology Branch
1993-1998	Post-doctoral Fellow Lineberger Comprehensive Cancer Center, University of North Carolina-Chapel Hill, NC
Years	Adjunct Faculty Positions
April 2019-present	Adjunct Graduate Faculty, Duke University, Integrated Toxicology & Environmental Health Program

Sept 2019-present	Adjunct Professor, University of Rhode Island, Department of Biomedical and Pharmaceutical Sciences
Years	Adjunct Positions (continued)
Jan 2013-Present	Adjunct Associate Professor, North Carolina State University, Comparative Biomedical Sciences – Toxicology & Veterinary Medicine
Oct 2005-Present	Adjunct Graduate Faculty, University of North Carolina-Chapel Hill, School of Medicine - Curriculum in Toxicology & Environmental Medicine
Jan 2003-Present	Adjunct Graduate Faculty, University of North Carolina-Chapel Hill, School of Public Health – Environmental Sciences & Engineering
June 2003-2009	Adjunct Graduate Faculty, North Carolina Central University, Dept of Biology (HBCU)
Oct. 2003-2009	Adjunct Graduate Faculty, North Carolina Central University, Dept of Chemistry (HBCU)

Teaching Experience

2020 – present	Instructor	NIEHS	Responsible Conduct of Research (Trainees)
Fall 2016 – present	Lecturer	UNC-Chapel Hill	Development - Advanced Toxicology 442
Fall 2019 – 2021	Lecturer	UNC-Chapel Hill	Endocrine Disruption – ENVR 630
Spring 1991	Lecturer	UW-Madison	<i>Reproduction in Farm Animals</i> - Short Course
Fall 1991	Lecturer	UW-Madison	<i>Lactation</i> - Dairy Science 305
Spring 1987, 88, 89	Teaching Asst.	UW-Madison	<i>Reproduction in Farm Animals</i> - Short Course
Fall 1989	Teaching Asst.	UW-Madison	<i>Livestock Production</i> - Dairy Science 101

Mentoring Experience

(* URM indicated)

Technical Staff:

Charlotte Love – June 2019 – Aug 2020 (post-bac IRTA; left to pursue PhD @ UNC-CH CiTEM)
 Veronica Godfrey Robinson* – Feb 2019 – present (Biologist FTE)
 Harlie Cope – January 2018 – July 2019 (post-bac IRTA; left to pursue PhD @ Baylor Univ)
 Sebnem Cevik – September 2017 – Aug 2019 (Int'l Special Volunteer; left for PhD @ NCSU)
 Coryna 'Sam' Samon – July 2017 – Sept 2018 (post-bac IRTA; left to pursue PhD @ OSU)
 Joshua Warmack – April 2016 – Dec 2017 (Special Volunteer/post-bac IRTA; left to teach)
 Sagi Enicole Gillera* – Dec 2014 – May 2018 (SV & post-bac IRTA; left to pursue PhD at NCSU, Toxicology Program)
 Dr. Vesna Chappell – October 2013 - present (Kelly Services)
 Dr. Jason Stanko - Feb. 2005 – Feb 2019 (Biologist FTE; left to pursue another position in DNTP)
 Casey Reed - Oct. 2010 - June 2014 (Kelly Services, left for permanent job as a nurse)
 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
 S.E.F. 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

NIEHS ONES, K99/00, and tenure-track faculty mentees:

Dr. Meghan Rebuli – Toxicology Program, UNC-Chapel Hill; NIEHS K99/00 submission
 Dr. Craig Burd – Dept of Molecular Genetics, Ohio State Univ; NIEHS K99/00
 Dr. Katie Burns – Dept of Environmental Health, Univ of Cincinnati; NIEHS K99/00

Dr. Lauren Aleksunes – Dept Pharmacology & Toxicology, Rutgers University; ONES
Dr. Michele La Merrill – Dept of Environmental Toxicology, Univ of CA – Davis; ONES
Dr. Laura Vandenberg – School of Public Health, UMass – Amherst; NIEHS ONES (tenured)
Dr. Kelly Ferguson – NIEHS DIR Tenure Track PI – Epidemiology (tenured 2022)
Dr. Alexandra White – Earl Stadtman Tenure-Track PI – Epidemiology, NIEHS DIR
Dr. Ciro Amato – Post-doc with Humphrey Yao – RDBL, NIEHS DIR
Dr. Elizabeth Martin* – Jr. Principal Investigator, Epigenetics & Stem Cell Biology Laboratory, NIEHS
Dr. Laura Kammel – Post-doc with Joe Rodriguez – ESCBL, NIEHS DIR
Dr. Alina Hamilton*, UNC-CH Computational Biology & Pathology, NIH F31 awarded Feb 2021
Tanner Richie, Kansas State University, Microbiology Dept, NSF training grant application Oct 2021
Dr. Charles Breeze – NCI post doc with Sonja Berndt – NIH K99/00 applied 10/21/April 2022
Brittany Rickard – UNC-CH CiTEM and JDBME, NIH F31 applicant Dec 2021/Aug 2022
Dr. Thea Golden – Univ Pitt, Reproductive Sciences Dept, NIH K21 applied 10/12/2022
Dr. Mandy Goldberg – NIEHS, Epidemiology Branch, K99/00 and Ind Research Scholar Program 2022
Dr. Mackenzie Dickson – NIEHS, RDBL with Franco DeMayo, PART award applied Sept 2022

Post-doctoral Fellows:

Dr. Manushree Bharadwaj – NIEHS IRTA Fellow, Oct 2016-Dec 2018 (OK State Univ), Clinical Pharmacologist at Food & Drug Administration/CVM/ONADE
Dr. Adam Filgo – NIEHS IRTA Fellow, June 2015-2016 (UNC-Chapel Hill), Senior Scientist at Zoetis Inc.
Dr. Sally S. White - NIEHS Research Fellow, Feb. 2010-2013 (UNC-Chapel Hill)
Dr. Erin P. Hines - R-Authority NHEERL Post-doc, 2004-2008 (LSU - Shreveport), Chief, Reproductive & Developmental Toxicology Branch, US Environmental Protection Agency
Dr. Cindy Mamay - R-Authority NHEERL Post-doc, 2002-2003 (Univ of CO – Denver)

Graduate Students:

Nancy Urbano* - serve on doctoral dissertation committee – UNC global health; March 2023 – present (Julia Rager, mentor)
Katelyn Huff* - Serve on doctoral dissertation committee – UNC Curriculum in Toxicology & Environmental Medicine; October 2020 – present (Rebecca Fry, mentor).
Erin McNell – Thesis co-mentor – Predoctoral trainee, Summer 2021. UNC Curriculum in Toxicology & Environmental Medicine; anticipates May 2026 graduation. (co-mentor is Kelly Ferguson, Epi Branch, NIEHS)
Tansy Gu* - Serve on doctoral dissertation committee – UNC Curriculum in Toxicology & Environmental Medicine; August 2020 - present. (Carmen Williams, mentor)
Brittany Rickard – Thesis co-mentor – Predoctoral trainee, Summer 2019. UNC Curriculum in Toxicology & Environmental Medicine; anticipates May 2024 graduation. (co-mentor is Imran Rizvi, Biomed Engr, UNC)
Christine Crute* – Ph.D. May 2022. Served on doctoral dissertation committee – Duke University Integrated Program in Environmental Health & Toxicology (Liping Feng, mentor).
Sam Hall – Ph.D. May 2022. Served on doctoral dissertation committee – Duke University, Environmental Toxicology (Heather Stapleton, mentor).
Bridger Ruyle – Ph.D. May 2022. Mentor and sponsor for KC Donnelly Award: “Application of Novel Analytical Methods to Assess Toxicokinetics of PFAS Mixtures in Mice”. Awarded externship through Superfund July 2021. Harvard University (Elsie Sunderland, mentor).
Sagi Gillera* – Ph.D. May 2022. Served on doctoral dissertation committee – NC State University, Toxicology Program (Heather Patisaul, mentor).
Kevin Mauge-Lewis* – Ph.D. May 2023. Thesis Mentor - UNC Curriculum in Toxicology & Environmental Medicine; co-mentored by Stephen Ferguson.
Emily Marques – Ph.D. May 2020. Served on doctoral dissertation committee - Department of Biomedical and Pharmaceutical Sciences, University of Rhode Island (Angela Slitt, mentor).
Bevin Blake – Ph.D. May 2020. Thesis Mentor - UNC Curriculum in Toxicology & Environmental Medicine; Co-mentor was Rebecca Fry. Highly awarded. Employed by the US EPA IRIS program March 2023 - .

Nathan Whitman – Ph.D. Dec 2019. Served on doctoral dissertation committee – UNC-Chapel Hill Biomedical Engineering. 3D models of Breast Cancer (Matthew Lockett, mentor).

Deirdre (Robinson) Tucker* – Ph.D. May 2017, Thesis Mentor - UNC Curriculum in Toxicology. NIEHS IRTA Fellow. DART Study Lead at Charles River Laboratories, Waltham, PA. January 2018-present.

Alisa A. Suen* – Served on her dissertation committee – Ph.D. May 2017, UNC-Chapel Hill Curriculum in Toxicology. (Carmen Williams, mentor) UNC-CH Medical school.

Erin Quist, DVM, DACVP, Ph.D. December 2016, Thesis Mentor - NC State University, Comparative Pathology; CMPB Toxicol Pathology Resident & NIEHS IRTA Fellow. Staff pathologist, EPL Inc., 2016-present

Adam Filgo - Ph.D. May 2015, Thesis Mentor - Curriculum in Toxicology, UNC-Chapel Hill. NIEHS IRTA Fellow. Senior Scientist @ Zoetis Kalamazoo, MI July 2020 – present.

Madisa Macon* – Ph.D. May 2014, Thesis Mentor - Curriculum in Toxicology, UNC-Chapel Hill, NIEHS IRTA Fellow, US EPA StAR Grant recipient, Toxicologist reviewer, CDER, OND, DAIP @ FDA 2017-present.

LaTonya Roseboro Villanueva* - M.S. 2009, Thesis Mentor - Dept. of Chemistry, North Carolina Central Univ. Chemistry instructor – Wake Tech

Sally S. White - Ph.D. May 2008, Thesis Mentor - Curriculum in Toxicology, UNC-Chapel Hill, Working in a company involved in environmental justice.

Jennifer L. Rayner* - Ph.D. May 2006, Thesis Mentor - Dept. of Environ. Sci, and Engineering, UNC-Chapel Hill, Staff toxicologist at SRI, Intl, Arlington, VA 2011-present

Melanie S. Pooler* - M.S., 2004, Thesis Mentor - Department of Biochemistry, North Carolina Central University Regulatory Affairs Specialist, PPD Inc., NC Regulatory Affairs Forum

Rolondo R. Enoch* - M.S., 2003, Thesis Mentor - Department of Biology, North Carolina Central University Clinical Trials Leader, Xencor, Monrovia, CA.

Sara N. Greiner - M.S., 2000, Thesis Mentor - Integrated Toxicology Program, Duke University Employed by the Clean Water Act Standards and Permits Office, US EPA, San Francisco, CA

Other Student Trainees:

Kashev Srivenkatesh – NIEHS Summer Intern, UNC-CH Public Health & Chemistry junior, May-Aug 2023

Sarah Combs – NIEHS Scholars Connect Program, UNC-CH Public Health & Environ Sci junior, June 2023-present

Oyemwenosa “Nosa” Avenbuan* - UNC-CH Toxicology Curriculum, Pre-doc research rotation, Winter 2022-3

Shivani Ayyaghari* - NIEHS Scholars Connect Program, NCSU Biomed Engineering junior, June 2022- present

Jadesola Oladosu* - NIEHS Scholars Connect Program, NCCU senior, June 2019-May 2022

Trina Phan* – Summer Intern – Virtual Research projects; May 2021-Sept 2021

Glenn Jackson* - NIEHS Scholars Connect Program, NC A&T senior, June 2019-Aug 2021 (NCSU Grad school)

Brittany Rickard – UNC-CH Toxicology & Envir Med, Pre-doc research rotation – Fall 2019

Trina Phan* – NIEHS Scholars Connect Program, NCSU senior, June 2019-May 2020 (OB Med Asst)

Tanner Russ – NIEHS Scholars Connect Program, NCSU junior, Jun 2018 – April 2019 (KSU Grad school)

Alina Hamilton* – UNC-CH Toxicology Curriculum, Pre-doc research rotation, Fall 2017

Kshitij Kumar* – NIEHS Scholars Connect Program, NCCU senior undergrad, July '17-May 2018 (NCCU Masters)

Kevin Mauge-Lewis* - UNC-CH Toxicology Curriculum, Pre-doc research rotation, Spring 2017

Mohammed Toulimat – Riyadh, Saudia Arabia, Student Volunteer, Summer 2016

Kezia Addo* -UNC-CH Toxicology Curriculum, Pre-doc research rotation, Winter 2015-6

Bevin Blake -UNC-CH Toxicology Curriculum, Pre-doc research rotation, Fall 2015

Kelsey Behrens -UNC-CH Toxicology Curriculum, Pre-doc research rotation, Fall 2015

Alysha Berezny - North Carolina State University. Summers of Discovery Intern, 2015

Brett Winters -UNC-CH Toxicology Curriculum, Pre-doc research rotation, Spring 2015

Rachel Schaeffer -UNC-CH Toxicology Curriculum, Pre-doc research rotation, Fall 2014

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 Intern, 2012

Pretish Borde - Univ of North Carolina-Chapel Hill. Summers of Discovery Intern, 2011

Deirdre Robinson* - UNC-CH Toxicology Curriculum, Pre-doc research rotation, Winter 2011

Aditi Borde - Panther Creek High School, Cary, NC. Summers of Discovery Intern, 2010 & 2011

Lydia Beck - Univ of Missouri, Summers of Discovery Intern, 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-Flourmoy* - 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 Interests & Specialization

- Environmental factors affecting fetal outcomes & latent health effects (DOHaD)
- Environmental modifiers of fetal/pubertal mammary gland development (puberty timing)
- Health effects related to perfluoroalkyl substances (PFAS) – metabolic disease focus
- Effect of environmental factors on a mother's ability to lactate & transfer to milk/offspring
- Chemical effects on breast cancer risk factors such as obesity, breast density, and hormones
- Methods and models for assessing mammary development, function, and disease

Meritorious and Scientific Honors

NIEHS-related 2009-present:

- 2023 "Top Accessed" paper of 2022 in Environmental Toxicology and Chemistry: "Per- and Polyfluoroalkyl Substance Toxicity and Human Health Review: Current State of Knowledge and Strategies for Informing Future Research," (<https://doi.org/10.1002/etc.4890>).
- 2022 2021 Paper of the Year in *Emerging Contaminants*. Cope et al "Latent, sex-specific metabolic health effects in male mice exposed to PFOA and HFPO-DA (GenX) during gestation."
- 2022 NIH Group Merit Award - For outstanding collaboration executing novel NTP Board of Scientific Counselors meetings
- 2022 NIEHS Special Act award – For exemplary leadership in advancing the path forward for finding collaborative solutions to environmental health disparities and environmental justice issues that affect disproportionately impacted communities
- 2022 NIEHS Special Act award – For leadership and scientific advancement of PFAS health effects
- 2022 NIEHS Green Researcher – Gold Level for helping to create a sustainable environment in and out of NIEHS
- 2022 NIEHS August Paper of the month: Environmental Factor. Blake et al. *Frontiers Toxicol*. "A high-throughput toxicity screen of 42 per- and polyfluoroalkyl substances (PFAS) and functional assessment of migration and gene expression in human placental trophoblast cells"
- 2021 Group Office of Research on Women's Health Award – service on the Maternal Morbidity and Mortality Workshop planning committee during 2021.
- 2021 NIH Group Merit Award for "Seamless and effective conversion of outreach and research training activities to a virtual platform during the COVID-19 pandemic." NSCP Mentors, October 2021.
- 2021 Group DNTP Award - service on the Emerging Contaminants and Issues of Concern Program team and BSC presentations during 2021.
- 2021 NIEHS Quality Step Increase – Repeated years of exceptional work performance – PMAP.
- 2019 NIH Graduate Partnerships Program Outstanding Mentor Award. Award given at the 16th Annual NIH Graduate Student Research Symposium, Natcher Conference Center, NIH Bethesda, MD. Feb 20, 2020.
- 2018 NIH Individual Merit Award for "Notable efforts addressing nationwide concerns regarding exposures to poly- and perfluorinated alkyl substances".
- 2017 NIH Group Merit Award for "Exemplary creativity in developing and hosting hands-on activities for children and adults as part of the Science in the Cinema community outreach and education program".
- 2016 EPA STAA Honorable Mention: Lehmann et al. Environmental Chemicals and the Breast: exposure through breastfeeding and effects on development.
- 2015 EPA STAA Level III Award: Marchitti et al. Providing Critical Models and Information Needed for Exposure and Risk Assessments of Environmental Chemicals in Infants
- 2013 NIH Cross-Divisional Merit Award for "Outstanding participation and service to the Interagency Breast

- Cancer and Environment Coordinating Committee”.
- 2012 EPA STAA Level III Award: Kodavanti et al. Research to Understand Developmental and Long-Term Consequences of Polybrominated Diphenyl Ether Exposures
 - 2012-present – Yearly Individual Cash award or Time-off Award for excellence in work performance (no yr missed)
 - 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.
 - 2011 NIEHS Quality Step Increase – Repeated years of exceptional work performance
 - 2010 NIH Merit Award for “Successfully leading validation efforts for mammary whole mount evaluations in NTP/NIEHS studies”.
 - 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
 - 2010 ILSI HESI Scientific Advisor award for leadership and scientific contributions to the Developmental and Reproductive Toxicology Technical Committee (May 2010).
 - 2010 EPA STAA Level III Award: Hines et al. Method Development to Measure Phthalate Monoesters, Perfluorinated Chemicals and Endogenous Compounds in Human Milk

US EPA-related 1998-2009:

- 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
- 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
- 2007 May. Research Highlight: *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 Quality Accomplishment Recognition (Q) Award
- 2005 NHEERL award: Goal 3 Science Award
- 2005 NHEERL award: Diversity - Minority Mentoring
- 2005 Outstanding Presentation - US EPA Science Forum. “Methods Advancement for Milk Analysis: Successful Inter-Agency and NHEERL Collaborations”
- 2005 Paper of the Year Award - *Toxicological Sciences* - Adverse effects of prenatal exposure to atrazine during a critical period of mammary gland growth. *Toxicol Sci* 87:255-266
- 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*.
- 2000 Exceptional ORD Technical Assistance to the Regions or Program Office Award - atrazine
- 2000-2009 Numerous Special Accomplishment Recognition (S) Awards (RTD/NHEERL/EPA)

Prior to government employment:

- Finalist for the Ladies Auxiliary of the Veterans of Foreign Wars Cancer Research Award 1997
- National Institutes of Health, National Research Service Award (1F32-CA63775-01) 1994-1996
- Postdoctoral Fellow - LCCC Training Grant (5T32-CA09156-19) 1993-1994
- Sigma Xi Research Award, National Academy of Sciences endowment, 1991
- USDA Biotechnology Research Fellow (87-GRAD-9-0084)
- Louise Troxell Award, 1988 (Outstanding UW-Madison Female Senior university-wide)
- Theodore Herfurth Award Finalist 1988 (Outstanding UW-Madison Senior Student)
- University Bookstore Independent Research Award 1988
- UW-Madison Alumni Award, 1988 (Outstanding UW-Madison Senior)
- Academic All-American 1987 and 1988
- American Dairy Science Association Achievement Award, 1987 and 1988
- W.D. Hoard Memorial Honor Scholarship, 1987-88
- UW-Madison Alumni Award, 1987 (Outstanding UW-Madison Junior)

Academic Achievement Scholarships (>10 not noted above; UW-Madison)

National Travel Award Recipient - SSR, AACR, FASEB, ADSA

Professional Activities and Leadership

Organization Memberships

Society of Toxicology, Full Member (2001-present)

- Reproductive & Developmental Toxicology Specialty Section (2001-present)
- Women in Toxicology (2001-present)
- Toxicology and Experimental Pathology Study Section (2010-2012; 2017-2020)
- Mixtures Specialty Section (2020-present)

Teratology Society/Society for Birth Defects Research & Prevention (BDRP) (2011-present)

U.S. DOHaD Society (Elected Councilor; 2018-present)

N.C. Society of Toxicology (1999-2005; 2014-present)

University of Wisconsin-Madison Alumni Association (life member)

Sigma Xi (life member)

Triangle Consortium for Reproductive Biology

Triangle UW-Madison Alumni Club (2006-present)

International Society for Exposure Sciences (2007-2012)

American Society for Cell Biology (1996-7)

American Association for Cancer Research (1996-8)

American Association for the Advancement of Science (AAAS, 1997-2006)

Subject Matter Expert and Committee or Volunteer Service

NIEHS/DNTP/DTT-related 2009-present:

DR2 Environmental Health Sciences Network | Research Coordination team – as part of a cross-agency disaster-relief preparedness effort. (Aubrey Miller, NIEHS lead) January 2023- present

DTT representative from ECIC PMT to the interagency committee on Non-targeted Analysis and Effects-Based Monitoring Coordination Team (as part of the National Emerging Contaminants Research Initiative). (Dan Shaughnessy, NIEHS lead) Sept 2022 - present

DTT representative to the President's Task Force on Chemical Exposure Subcommittee – evaluation of child health safety measures (Kim Gray, NIEHS lead) January 2023 - present

DTT Staff Scientist search committee - NR136; Nov 2022 – February 2023 Systems Tox Branch (Nigel Walker SO)

DTT Staff Scientist search committee – NR136; Nov 2022 – February 2023 Office of Program Operations (Michelle Hooth SO)

NIEHS Staff Scientist search committee – NR138; Oct – Dec 2022. (Epidemiology Branch; Kelly Ferguson SO)

NIEHS Staff Scientist search committee – NR130; Sept-October 2021. (Clinical Sciences; Natalie Shaw SO)

NIH Women Scientist Advisor (WSA) representative from the National Institute of Environmental Health Sciences (October 2020-present)

DNTP representative to the NIEHS Animal Care and Use Committee (March 2021-present)

DNTP Emerging Contaminants and Issues of Concern (ECIC) Program Management Team – 2019-present (I am the Business Owner; Lead for NIEHS Annual Report)

DNTP Board of Scientific Counselors Review – April 23, 2021. ECIC Program review. (I wrote program plan/helped develop slide content for presentation)

2020 Birnbaum Symposium Chair. Created agenda, invited speakers, worked with OD to fund travel, worked with sponsors. 4/6/2020 and 8/31/2020 dates cancelled due to COVID-19.

U.S. Developmental Origins of Health and Disease (DOHaD) Society – Annual meeting organizational team

Society for Birth Defects Research & Prevention (BDRP; Formerly Teratology Society):

Scientific Program Committee (2020-present)

Awards Committee member (June 2017 – present; 2019 vice-chair; 2020 chair).

Society of Toxicology (SOT) Reproductive & Developmental Toxicology Specialty Section Awards Selection Cmte (2017-present) Student presentation, Ed Carney, Lifetime Achievement, & Publication awards

UNC-Chapel Hill Curriculum in Toxicology & Environmental Medicine's (CiTEM) Post-doc Selection Committee (2016 - present)

NIEHS Distinguished Lecture Series Committee – DNTP representative (Jan 2016 - present)
NIEHS – Assembly of Scientists: Councilor - open election (December 2015 - 2017)
NIEHS 50th Anniversary – 25th Anniversary of EDCs Symposium Planning Committee; Session lead on “Emerging Chemicals and Tools” (May 2015 - Sept 2016)
UNC-Chapel Hill Curriculum in Toxicology Executive Committee (elected; July 2013 – June 2015)
UNC-Chapel Hill Curriculum in Toxicology Graduate Review Committee (2010-2013)
NIEHS Division of Intramural Research COP III Promotion Committee (Jan 2012 - Dec 2015)
Acting Chair – Dec 2012, April 2013, Sept 2015, Nov 2015
Ad hoc lead reviewer – March-May 2016
NIEHS Strategic Planning in Predictive Toxicology (co-chair Life Stage Susceptibility) 2012-2014
NTP Board of Scientific Counselors Review presenter – April 16-18, 2014. NTP Laboratory review.
NIEHS volunteerism – NTP Trainee Forums: 3/20/2014 Flash Networking; 3/2015 Speed Interviewing; 2016 Science in the Cinema – Raleigh, NC.

NTP Study Design Team/Review Team/Advisement:

PFAS Mixtures 28d studies
PFAS in AFFF DoD/DNTP collaborative study
Consumer Products and Puberty Timing
Biomarkers of HDP
Crumb Rubber & Research Report 13
RoC Reviewer – Light at Night/Melatonin
NIOSH AFFF/PFAS in occupational health
CNVERG – Hallmarks of Cancer
Alpha-Pinene and Mammary Cancer
Chemotherapeutics in Pregnancy
Aromatic Phosphate Flame Retardants
Neurobehavioral effects of BDE 47, 99, and 153 in mice
In utero/Lactational 2 yr studies of BDE 47, 99, and 152 in mice
Perfluorinated Chemicals in rats
Soy Infant Formula in mice

US EPA-related 1998-2009:

Society of Toxicology (SOT) RDTSS Program Committee, 2007-2008
SOT RDTSS elected Councilor, 2009 - 2011
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
US EPA NHEERL Quality Assurance Working Group - RTD representative, 2/06-9/09
US EPA EDC Implementation Plan – investigator, 2001-2006
National Children’s Study Biological Sample Collection Panel, 11/05-09/08
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
US EPA RTD Seminar Series Committee, 1999-2003

Prior to government employment:

Chair, Endocrinology-Reproductive Physiology Research Symposium, UW-Madison, 1991
UNC-CH Lineberger CCC Postdoctoral Committee, 1994-95
UW-Madison ERPP Research Symposium Planning Committee, 1992
UW-Madison ERPP Seminar Committee, 1988-89, 1991-92
UW-Madison ERPP Curriculum Committee, 1989-90, 1992-93
UW-Madison Department of Dairy Science Curriculum Committee, 1987-1988

Outside Activity Leadership Roles

Service to journals:

Editorial Board, *Environ Health Perspect* – Assoc. Ed. - May 2017-present (only current NIEHS rep)

Endocrinology – 2015-2018 (ed. Andrea Gore)

Birth Defects Research - 2003-present (ed. George Daston)

Endocrine Disruptors - 2013-2017 (ed. Cheryl Watson)

Reproductive Toxicology - 2011-2016 (ed. Tom Knudsen)

Invited Editor: *Frontiers in Toxicology*: "Women in Developmental and Reproductive Toxicology: 2022"

Reproductive Toxicology: "Environmental Chemicals and the Mammary Gland" 2023

Methods in Molecular Biology: The Mammary Gland 2024

Ad hoc reviewer: 1993–Present (over 200 requests in the last 2 years; **Bold** = regular basis).

Acta Histochemica, *Archives of Environmental Contamination and Toxicology*, *Biology of Reproduction*, *Birth Defects Research*, *BMC Pharmacol & Toxicol*, *Breast Cancer Research*, *Cancer Epidemiology*, ***Chemosphere***, *Developmental and Reproductive Toxicology*, ***Endocrine-Related Cancer***, *Endocrinology*, ***Environment International***, ***Environmental Health Perspectives***, ***Environmental Health***, *Environmental Monitoring & Assmt*, ***Environmental Pollution***, ***Environmental Research***, ***Environmental Science & Technology***, ***ES&T Lett***, *Experimental Biology and Medicine*, *Fertility and Sterility*, ***Frontiers (several)***, *Gene Regulation and Systems Biology*, *Genes, Chromosomes & Cancer*, *Histology & Histopathology*, *Human Reproduction*, ***International J Environ Res Public Health***, ***J of Applied Toxicology***, *J of Endocrinology*, *J of Experimental Pathology*, ***J of Clinical Endocrinology & Medicine***, *Journal of Exposure Science and Environmental Epidemiology*, *JoVE*, *Mammary Gland Biology & Neoplasia*, ***Molecular Metabolism***, ***Nature Biology***, *Nature Reviews Cancer*, *Neurotoxicology*, *PLoS Biology*, ***PLoS ONE***, *PPAR Research*, ***Reproductive Toxicology***, *Toxicologic Pathology*, ***Toxicological Sciences***, *Toxicology and Applied Pharmacology*, ***Toxicology***, *Toxicology Letters*, and more.

National & International Subject Matter Expert Activities 2009-present:

Organizing committee – 4th National Conference on Per- and Polyfluoroalkyl Substances: NAME – Ann Arbor, MI, June 2024.

Session Co-chair – US DoHAD Society annual meeting: DEVELOPMENTAL CROSSROADS: Intersecting Origins of Health and Disease. Session 4 on "The intersection of pre- and perinatal exposures and health outcomes". Sept 17-19, 2023. Kansas City, MO. Co-chair Dr. Thad Schug, NIEHS DERT.

Symposium Session Co-Chair – "Emerging Environmental Contaminants and Issues of Concern: Developing toxicologic strategies to identify and address tomorrow's public health issues". SOT Annual Meeting, Nashville, TN. March 2023. Co-chair Dr. Esra Mutlu, US EPA.

Expert Reviewer - Natural Sciences and Engineering Research Council of Canada (NSERC) – reviewed Discovery Grant proposals related to endocrine disrupting activities. January 2023

Organizing committee and session chair – 6th U.S. Developmental Origin of Health and Disease (DOHAD) Society meeting – Minneapolis, MN; October 2022.

OECD Expert Group – Mammary gland expert invited to international panel to develop detailed review paper and feasibility assessment of whole mount collection and evaluation in OECD EOGRTS test guideline studies. Feb 2022 – present. (3 yr commitment)

Organizing Committee – NIEHS Combined Exposures and Mixtures faculty members hosted a workshop titled "Complex Exposures in Breast Cancer: Unraveling the Role of Environmental Mixtures" on August 24-25, 2022 (virtual). Session lead, Methodology breakout group lead.

Lead writer, Animal Toxicity – Per- and Polyfluoroalkyl Substances (PFAS) Report to Congress. April 2022-2023. Report submitted to Congress March 2023.

Executive Advisory Committee, University of Kentucky Superfund Research Center, Kelly Pennell, director. July 25, 2022-present.

Organizing committee and session chair – 3rd National Conference on Per- and Polyfluoroalkyl Substances: Social and Scientific Discovery – Wilmington NC, June 2022.

Symposium Session Co-Chair – "Per- and Polyfluoroalkyl Substances (PFAS) and children's health". BDRP Annual Meeting, Vancouver, BC (Canada). Co-chair Dr. Tamarra James-Todd, Harvard Univ. June 2022.

Symposium Session Co-Chair – “Hypertensive Disorders of Pregnancy: Environmental Influences, Biomarkers, and Models”. SOT Annual Meeting, San Diego, CA. Co-chair Dr. Sam Snow, ICF. March 2022

Expert Reviewer – Health Canada’s Environmental Health, Science and Research Bureau (EHSRB); Healthy Environments and Consumer Safety Branch - CMP Research and Monitoring and Surveillance Program grant reviewer. April 2022

Expert Reviewer – At the request of the PFAS Interagency Working Group, I fact-checked and made written comments on the US EPA’s PFDA IRIS Toxicity Assessment. March 2022/April 2022 (2 follow up mtng).

Invited Subject Matter Expert – North Carolina Dept of Environmental Quality PFAS planning session. Raleigh, NC. January 19, 2022.

Organizing Committee – NIEHS Environmental Health Disparities and Environmental Justice faculty members hosted a workshop titled “Environmental Impacts on Women’s Health Disparities and Reproductive Health” on April 27-28 at NIEHS. Session lead, organizing team.

Invited Subject Matter Expert – National Academies of Science Engineering and Medicine workshop on New Approach Methods (NAMs) in Risk assessment – discussant on human:animal concordance. Dec 9, 2021.

Organizing committee – 5th US DOHaD Society Annual Meeting. “Womb and Cradle: Developmental exposures affecting the trajectory of health and disease”. Chapel Hill, NC. Nov 7-9, 2021. (in person/virtual)

Organizing committee – Congressionally-mandated “Advancing NIH Research on the Health of Women: A 2021 Conference”, organized in conjunction with NIH ICs and Office of Research on Women’s Health. Held 10/20/2021 (virtual).

Invited Discussant – NDAA-mandated Contaminants of Emerging Concern Inter-Agency Working Group – Virtual brainstorming sessions (4) held Sept 14 and 30, 2021.

Expert Reviewer - The “Cancéropôle Grand Ouest” Grant Programme of the French government ‘Cancer Plan’ grant reviewer. September 2021.

Expert Reviewer - French Foundation for Medical Research on Endocrine Active Agents - “Environment and Health 2021” grant reviewer. April 2021

NIEHS Lead, NIEHS PFAS Interest Group - Monthly meeting of NIEHS staff developing PFAS studies. Includes NICHHD, DERT, DIR and DNTP. Original host = Dr. Gabe Knudsen, March 2021-present.

PFAS Policy Advisor – At the request of the NIEHS OD and NIH policy team, Chris Weis and I provided evidence for a non-concur on E.O. 12866 Review: CERCLA ANPRM "Addressing PFOA and PFOS in the Environment" (RIN 2050-AH09). Jan 2021.

U.S. Lead – Mammary Gland Expert Group – Collaborative effort to provide a Detailed Review Paper (DRP) and a feasibility study on mammary gland whole mounts as an SPSF to the OECD. Nov 2020 – present.

Expert Reviewer – At the request of the PFAS Interagency Working Group, I fact-checked and made comments on the US EPA’s PFBS Toxicity Assessment. December 2020 and January 2021.

Invited Panelist – National Academy of Science, Engineering & Medicine meetings on PFAS – In vivo and Human Reproductive/Developmental studies. Oct 26-27, 2020.

Organizing committee – Federal Information Exchange (FIE) on PFAS – July 2020- Feb 2021. Organized virtual sessions 2-5: In Vitro Toxicology Hazards, Interpreting Toxicology Hazards, Analytical Methods, and Thyroid Toxicity

Session co-chair – SETAC North America – Environmental mixtures - AFFF, co-chaired with Dr. James McCord, US EPA. Nov 2020 (Virtual)

Expert Reviewer – US EPA, Public Health and Integrated Toxicology Division, Center for Public Health and Environmental Assessment. Review of promotion potential for Dr. Jan Dye. June 2020.

Session Co-Chair – SETAC Europe 2020 – Modern Approaches to Assessment and Management of PFAS: A science-policy dialogue. Chairs: Carlie LaLone, Lena Vierke, Zhanyun Wang. Dublin, Ireland; May 2020 (Virtual)

Session chair - TRAC 2020 – Understanding the Exposures to and Human Health Effects of Perfluoroalkyl Substances, Cincinnati, OH, April 20-23, 2020 – Cancelled due to COVID-19.

Session Co-Chair – BDRP 2020 - Pregnancy, Environment and Child Health: A focus on obesity and metabolic disorders. Co-chair was Jerry Heindel. June 2020 (Virtual)

Organizing Committee – SETAC Special Workshop on PFAS – Helped ensure meeting ran well, break-out sessions were successful, and report out. NIEHS representative. August 12-15, 2019. Durham, NC.

Platform Session Chair at SOT – SPC Highlights Emerging Scientists: Adverse Effects of Perfluorinated Alkyl Substances. March 2019, Baltimore, MD. (Cancelled due to COVID-19)

Expert Advisor – California Breast Cancer Research Program’s Global Challenge to Prevent Breast Cancer. Develop RFP and evaluate worldwide proposals. Dec 2018-June 2022.

Expert Reviewer – UMass-Amherst, School of Public Health & Health Sciences, Dr. Tim Ford, Director. Review of promotion potential for Dr. Alexander Surovov. Aug 2018.

Expert Advisor – PFAS and Breast Cancer in Women in the Military. CDMRP grant collaborator with Dr. Celia Byrne, USUHS, Bethesda, MD. July 2018 – present.

Expert Reviewer – UNC Policy Collaboratory and the N.C. Per- and Polyfluoroalkyl Substance Testing (PFAST) Network to review proposals, Dr. Jason Surratt, Director. July 2018.

TRAC 2018 Session Chair on PFAS State of the Science (Mike Quinn, Army Public Health, co-chair). April 2018. Cincinnati, OH.

Research collaborator – Dr. Rebecca Fry, UNC Chapel Hill EPA and RO1 applications on PFAS and placental health. Submitted in Summer and Fall 2018.

Advisor on PFAS for federal cross-agency Toxics and Risks Subcommittee; Chris Weis, NIEHS, Ron Hines, US EPA, and Bindu Nair, DoD; co-chairs. 2017 and 2018 – multiple calls.

Expert Reviewer – NCSU Center for Human Health and the Environment. Review and score research projects for internal funding. Dr. J. Bonner, chair. March 2018.

Co-Organizer – Worked with Chris Weis, OD, NIEHS and Ron Hines, Center Director, US EPA to develop agenda and invite speakers for Cross Agency Information Exchange on PFAS – NIH Bethesda, MD. Feb 5-6, 2018.

Co-Chair with Ron Hines, USEPA, the Health Effects State of the Science session. Cross Agency Information Exchange on PFAS, NIH Bethesda, MD. Feb 6, 2018.

NIEHS PFAS Expert – Assist in writing and compiling NIEHS response to DHHS-wide queries on PFAS; includes Sept 2018 and July 2018 Congressional Briefing by LB, June 2017 Rep. Fitzgerald Bill on PFAS, July 2017 updates to Federal Toxics and Risks Subcommittee, Aug 2017 help DERT POs with emergency research funds requests on PFAS.

NIEHS BRAIN report point of contact – PFAS, Bisphenols, Obesity, Birth Outcomes for NIH reports to Congress. 2016, 2017, 2018

Symposium Co-chair and Speaker – Teratology Society Annual Meeting – Environment and the Male Breast. Co-chair was Susan Euling, US EPA. June 24, 2017. Denver, CO.

NTP Lead – PFAS In Vitro REACT team – lead study design and in lab studies for about 50 PFAS nominated through EPA, FDA, DoD, and others. May 2017 – 2019.

Invited Lead Reviewer – US EPA Technical Qualifications Board, Dr. Abdel Kadry, lead. Led review of 2 of 12 required section responses for NCEA employee. May 2017.

Invited Reviewer – Center for Human Health and the Environment grants reviewer. J. Bonner, lead. Review and score innovation grant proposals. May 2017.

Invited Member – Cross-Fed Agency/Center/Dept Chemical Toxicity Assessment (CTA) working group. Lynn Flowers, EPA, lead. April 2017- present.

Invited Session Chair – Society of Toxicology Annual Meeting – Endocrine Toxicology Platform session. March 14, 2017. Baltimore, MD.

Expert Panel – Paradigm II – team goal to define a model for environmental risks related to premenopausal breast cancer. Dr. Robert Hiatt, lead, UCSF. Feb 2014 – present.

Expert Advisor – Women Firefighters Biomonitoring Collaborative (WFBC). Rachel Morello-Frosch, lead, UCSF. Dec 2014 – present.

Invited Lecturer – UNC-Chapel Hill TOX442 (second yr TOX grad students) – ‘Development’. October 27, 2016; October 26, 2017, October 25, 2018.

Session Lead – NIEHS 25th Anniversary of EDCs Symposium. ‘Safer Chemicals and Better Research Strategies’. September 20, 2016.

NIEHS Representative - Hoosick Falls/Petersburgh Town Hall Meeting on PFOA. Hoosick Falls, NY. June 29, 2016. Invited by Senator K. Gillibrand.

Writer/Grader for Toxicology Curriculum Comprehensive exams for predoctoral students – May 2016 (Fenton/Birnbaum)

Guest lecturer – California Breast Cancer Research Program and Commonweal – advocate training on breast cancer and the environment. Los Angeles, CA, May 24-26, 2016.

Invited Reviewer – European Union grant review on environmental chemicals. April – June 2016.

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

External Reviewer for Promotions Committee - Department of Animal, Dairy and Veterinary Sciences in the College of Agriculture and Applied Sciences at Utah State University (USU). Sept–Oct, 2014.

Provide research guidance to DERT NIEHS – Breast Cancer and the Environment Research Program. October 2014. Helped them development new RFA.

UNC Toxicology Curriculum Thesis Committee member – Alisa Suen, under the supervision of Dr. Carmen Williams, NIEHS. Fall 2013-May 2017.

Research Collaborator – NIEHS BPA CLARITY Grant with Dr. Ana Soto. Mammary gland as a target tissue. 2013-present.

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

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

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

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

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

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 - 2013.

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
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

US EPA-related 1998-2009:

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 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
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 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.
OW & OPPT Program Office Briefing – Atrazine metabolites; May 22, 2008
Invited Grant Review Leader - California Breast Cancer Research Program, Special Research Initiatives, August 2008
Invited External Scientific Reviewer; NIEHS Superfund grants. Reproductive/Endocrine expertise. Nov 5-8, 2008. Chapel Hill, NC
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
Writer/Grader for Toxicology Curriculum Comprehensive exams for predoctoral students – May 2007
Invited External Scientific Reviewer; NIEHS Superfund grants. Sept 24-27, 2007. Chapel Hill, NC
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 2006-2012.
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

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

Technical Advisor, US EPA contract (4D-5640-NTLX) 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 2003-2009

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

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

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, 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

Theme Leader, NCS Goal 8.2 for RTD 2002-2006

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

Invited Talks and Seminars

NIEHS-related 2009-present:

1. University of Pennsylvania Center of Excellence in Environmental Toxicology invited speaker: "Per- and Polyfluoroalkyl Substances (PFAS): Adverse Outcomes following Gestational Exposures." April 20, 2023.
2. Society of Toxicology invited speaker and session chair: Emerging Environmental Contaminants and Issues of Concern: Developing toxicologic strategies to identify and address tomorrow's public health issues workshop. Nashville, TN. March 16, 2023.
3. Society of Toxicology invited speaker: Placenta as a Target of Environmental Exposures: From Bench to Society session. Seminar entitled: "Legacy and Replacement Per- and Polyfluoroalkyl Substances (PFAS) Target the Placenta". Nashville, TN. March 13, 2023.
4. North Carolina State University's Center for Human Health and the Environment invited speaker & Director candidate: "Environmental Contaminants Impacting Infant Exposures and Latent Health Outcomes." Jan 12-13, 2023
5. USC's Southern California Environmental Health Sciences Center invited speaker: "Health Effects of Replacement PFAS: Future Priorities Focused on Infants." Dec 9th, 2022
6. Breasts Matter - A Workshop to Improve Chemical Testing. Breast Cancer Action and Silent Spring Workshop invited speaker: Virtual workshop. Nov 15 and 17, 2022
7. EuroTox Carcinogenesis Specialty Section workshop: Receptor-mediated early molecular events in chemical carcinogenesis. Invited speaker: "Genomic profiles for PFOA and GenX induced liver disease in mice" Nov 9, 2022.
8. Environmental Health Project invited speaker: Virtual webinar entitled "PFAS and Health Impacts: What Frontline Communities Need to Know". Focus on female reproductive outcomes. Oct 19, 2022.
9. Greenwald Symposium, Keynote lecture entitled "Per- and Polyfluoroalkyl Substances (PFAS) Exposures During Pregnancy: Effects on Mom and Offspring". Kansas University Medical Center, Kansas City, KS – Oct 14, 2022.

10. NIEHS Neurobiology Laboratory seminar series invited speaker: "Health Effects of PFAS: Future priorities focused on infants". NIEHS virtual seminar. Sept 21, 2022.
11. Green Science Policy Institute monthly PFAS Experts meeting - invited speaker: "PFAS and Lactation and infant exposures". Virtual presentation. Sept 7, 2022.
12. OECD MG Expert Group invited speaker: "Recent Progress and Additional Information to be Generated on Mammary Whole Mounts". Virtual presentation. Sept 1, 2022.
13. NIEHS workshop: Complex Exposures in Breast Cancer: Unraveling the Role of Environmental Mixtures. Invited speaker: "Chemicals and Breast Cancer Risk: Need Better Animal Models or Better Strategies?" NIEHS virtual workshop. August 25, 2022.
14. American Chemical Society President's Symposium on PFAS invited speaker: "Health effects of PFAS: Past, present and future priorities". Chicago, IL. August 21, 2022.
15. Society for Birth Defects Research & Prevention Annual Meeting; Invited talk: "GenX effects in pregnant mice and persistent effects in their offspring". BDRP Annual Meeting, Vancouver, BC. June 29, 2022.
16. 3rd National PFAS Conference invited speaker and session chair: "PFAS exposure during pregnancy: GenX-induced latent health effects". Wilmington, NC. June 15, 2022.
17. University of North Carolina QUEST program for URM. "GenX chemicals, current drinking water contaminants, are not safe replacements for PFOA". In person and mentoring session @ UNC-Chapel Hill. June 8, 2022.
18. University of Rhode Island Superfund Center (STEEP) invited seminar: "GenX, a current drinking water contaminant, is not a safe replacement for PFOA". Virtual speaker. April 25, 2022
19. NIEHS wide invited speaker: "Environmental Contaminants and Developmental Origins of Disease". Candidate for Title 42 position. March 16, 2022.
20. FASEB Catalyst Meeting invited seminar: "PFOA and GenX health effects using research in a mouse model and health effects reported in humans". Virtual meeting. Feb 3, 2022.
21. DNTP MTB Chief Candidate invited seminar: "A Multidisciplinary Team Science Approach Adding Value and Impact in the DNTP". Virtual presentation and interviews. Dec. 14, 2021.
22. National Academies of Science Engineering and Medicine workshop on New Approach Methods (NAMs) in Risk Assessment – Invited talk "Inter and intraspecies Variability in Responses". Speaker & discussant; Dec 9, 2021.
23. Molecular and Environmental Toxicology program at the University of Wisconsin-Madison. Invited speaker: "How can pesticides and pollution change your career trajectory?". Madison, WI. Dec 9, 2021.
24. The Society of Toxicology of Canada Annual Meeting; *Keynote Address*: "Developmental PFAS Exposures and a Lifetime of Health Effects". Montreal, Canada. Dec 1, 2021.
25. Duke University – Reproductive Sciences seminar series; Invited speaker: "Now you see me, now you don't – Health effects in mice developmentally exposed to GenX". Durham, NC. Nov 10, 2021
26. U.S. Developmental Origins of Health and Disease (DOHaD) Society Annual meeting; Keynote speaker: "The Placenta as a Sensitive Target for Emerging PFAS contaminants". Chapel Hill, NC. Nov 8, 2021.
27. PFAS Science and Policy Expert Group – hosted by Green Science Policy. "Latent, sex-specific metabolic health effects in male mice exposed to PFOA and HFPO-DA (GenX) during gestation". Nov 3, 2021.
28. Massachusetts Breast Cancer Coalition's 30th Anniversary; Keynote speaker: "Environmental Chemicals in Breast Developmental Timing". Sept 1, 2021.
29. NIEHS Office of Intramural Training and Education Career Panel for Fellows; Invited discussant – academia to government. July 9, 2021
30. NIOSH NORA Public Safety Sector Council Meeting, State of Research and Practice for Per- and Polyfluoroalkyl Substances (PFAS); Invited speaker: "PFOA and GenX – structurally different, but similar in toxicity of target tissues". May 19, 2021
31. Society for Birth Defects Research and Prevention Annual Meeting Multidisciplinary Research Needs Workshop; Invited NIEHS representative: "NIEHS and DNTP BDRP-related Research". June 28, 2021
32. NCI and NIEHS joint "Breast Cancer and the Environment: Controversial and Emerging Exposures"; Invited speaker: "Integrating Human and Animal Evidence". May 14, 2021
33. Emerging Contaminants in the Environment Conference (ECEC21); Oral presentation: "Prioritizing Toxicological Research on Emerging Contaminants or Issues of Concern: Identification, response, timing, and teamwork". April 28, 2021
34. Department of Defense MERIT meeting; Invited speaker: "Deconvoluting the Identity and Biological Responses

- of Replacement PFAS in Fluorotelomer-containing AFFF". April 13, 2021
35. Society of Toxicology Symposia honoring the research career of Dr. Linda S. Birnbaum. Invited speaker: "Developmental Origins of Adult Disease". March 24, 2021
 36. California EPA OEHHA Seminar Series; Invited speaker: "The placenta as a target in PFAS developmental toxicity and origins of adult disease". Jan 21, 2021
 37. Broadview Middle School 6th graders; Invited speaker: "Would You Want My Job?". Graham, NC. December 8, 2020
 38. National Academy of Science, Engineering & Medicine PFAS Focus meeting. Prepared NIEHS slides for Rick W and discussion panelist. Oct 2020
 39. Air & Waste Management Association (AWMA) Annual Meeting; Invited speaker: "PFAS Knowledge Gaps: Health effects and exposure". Sept 17, 2020
 40. Environmental Council of the States (ECOS) STEP Meeting: Partnering on PFAS; DNTP/NIEHS representative "Federal Perspectives on PFAS". July 29, 2020.
 41. Society for Birth Defects Research & Prevention Annual meeting. Invited speaker: "Effects of Developmental Exposure to GenX on Mouse Offspring: Pubertal and Metabolic Targets". June 28, 2020
 42. SETAC Europe PFAS Health effects session; Presenter: "A comparison of perfluorooctanoic acid (PFOA) and hexafluoropropylene oxide dimer acid (HFPO-DA, or GenX) effects in target tissues of exposed mice." May 5, 2020. Dublin, Ireland.
 43. Yale University Symposia. Per- and Polyfluoroalkyl Substances (PFAS): Challenges and Opportunities. Invited speaker: "Evidence for Developmental Exposure to PFAS and Adverse Health Effects in Rodent Models". Dec 13, 2019, New Haven, CT.
 44. NC Secretaries' Scientific Advisory Board. Request for Review and Comment on 15A NCAC 02L .0202 Groundwater Quality Standard for PFOA and PFOS. Invited speaker. "PFOA-Induced Health Effects". December 2, 2019. Raleigh, NC.
 45. NC Department of Environmental Quality. Request for assistance on end points of interest. Invited presentation, "PFOA and HFPO-DA (GenX) tissue targets in CD-1 mice". NIEHS hosted NC DEQ, NC DHHS, EPA scientists. Nov 21, 2019.
 46. Research Triangle Environmental Health Collaborative. Invited chair and speaker – "Comparison of health effects following oral exposures to PFOA and HFPO-DA (GenX) in pregnant mice." NC Biotech Center, Oct. 21, 2019.
 47. Society of Toxicologic Pathologists Rodent Pathology Symposium. Invited speaker: "The importance of understanding strain differences: Study design considerations". Sept 29-Oct 1, Raleigh, NC.
 48. PFAS: Second National Conference. Invited speaker: Review of Government Research Efforts Panel and "Comparing effects of perfluorooctanoic acid (PFOA) and GenX on mouse pregnancy, fetal and early developmental outcomes". June 10-12, 2019, Northeastern University, Boston, MA.
 49. Silent Spring Institute invited speaker and expert. "Breast Development, Cancer, and the Environment – the road to progress and prevention". April 25-26, 2019. Boston, MA.
 50. University of Rochester Environmental Health Sciences Center seminar series. Invited speaker. "The mammary gland: a sensitive target to environmental endocrine disruptors". Rochester, NY. Jan 24, 2019.
 51. NTP Laboratory Seminar Series, "Breast tissue and breast cancer risk factors as targets for endocrine disruption". NIEHS, January 22, 2019.
 52. Collaborative on Health and the Environment EDC Strategies Partnerships Webinar invited speaker. "Evaluation of PFAS for Potential Health Effects". January 16, 2019. Record-setting web attendance.
 53. USGS Federal Remediation Technologies Roundtable (FRTR). Invited speaker on "Evaluation of poly/perfluoroalkyl substances (PFAS) for potential health effects". Reston, VA. Nov 7, 2018.
 54. Wayne State University and Karmanos Cancer Institute's Population Studies & Disparities Research Program. Keynote speaker. "The mammary gland: a sensitive target to environmental endocrine disruptors". Detroit, MI. Oct 5, 2018.
 55. UNC Center for Environmental Health & Susceptibility and the Environmental/ Occupational Epidemiology Seminar Series. Invited speaker. "3000 and Counting: How will we prioritize PFAS for health effects research". Chapel Hill, NC. Aug 24, 2018.
 56. Commonwealth Biomonitoring Resource Center and the Integrated Flame Retardant Collaboration. Invited online seminar presenter. "NTP/NIEHS PFAS Research Efforts". May 10, 2018.

57. SOT 'Hot Topics' session on PFAS. Invited speaker. "3000 and Counting: How to prioritize PFAS for health effects research". San Antonio, TX. March 13, 2018.
58. Duke University Spring Symposium, *Breast Cancer & the Environment*. "The mammary gland: a sensitive target to environmental endocrine disruptors". Durham, NC. March 9, 2018.
59. CA Breast Cancer Research Program – invited speaker. "What's New and Important? PFAS research needs & Bisphenol alternatives". UC-Berkeley, Berkeley CA. Feb 12, 2018.
60. Federal Information Exchange on PFAS – invited speaker. "Current Scientific Trends in PFAS Knowledge: Health Effects". Feb 5, 2018. NIH, Bethesda, MD.
61. Army Public Health Center. Invited speaker and MG whole mount expert – "PFOA-Related Health Effects: The mammary gland as a sensitive target tissue". Dec 6, 2017. Aberdeen Proving Grounds, MD.
62. American College of Epidemiology – Workshop on Extreme Personal Exposure Biomarker Levels: Guidance for Investigators. Invited Speaker. "Biomonitoring Equivalents and Exposure Thresholds." Sept. 24, 2017. New Orleans, LA.
63. Department of Defense Chemical Material Risk Management Program, Materials of Evolving Regulatory Interest Team (MERIT) Information Meeting. Featured speaker. "Update on NTP and NIEHS Research on PFAS-related Health Effects". Presented via webinar, July 18, 2017. Washington, D.C.
64. Breast Cancer and the Environment Research Program (BCERP) Integration Meeting. Keynote Speaker for Exposure Equivalency. "Making rodent studies relevant: Dose equivalency, half-lives, and exposure assessment", July 19, 2017. Philadelphia, PA.
65. BCERP-sponsored Mammary Gland Whole Mount Workshop. Invited Speaker and Workshop Expert by Dr. Jose Russo, "Issues in Evaluating Mammary Gland Development: Strain & Sex Comparison, Whole Mount Utility, and Quantitative Branching Analysis." July 17-18, 2017. Fox Chase Cancer Center, Philadelphia, PA.
66. NIEHS Wake County Teacher Boot Camp. Invited Guest Speaker. "Real life environmental problems – in our backyard." July 11, 2017. NIEHS, RTP, NC.
67. Teratology Society Annual Meeting – Male Breast Health: The Role of Developmental Exposures on Childhood and Adult Outcomes. Invited Symposium Speaker. "Male Rat Mammary Gland Effects after Developmental Exposure to Environmental Chemicals." June 26, 2017. Denver, CO.
68. US EPA's ToxCast Group Meeting. Invited Speaker. "NTP's Collaborative Evaluation of Predicted Obesogens using Tox21 Data, Data Mining, and 3T3-L1 Cell Testing." May 31, 2017. US EPA, RTP, NC.
69. National Science and Technology Council's Subcommittee on Toxics and Risks. Guest Speaker: "PFAS-Related Research in the National Toxicology Program and NIEHS." May 11, 2017. Invited Update, July 20, 2017. White House Conference Center, Washington, D.C.
70. U.S. EPA's Laboratory and Technical Information Group Conference. Invited Speaker. "PFOA-related Health Effects." Presented via webinar, May 1-4, 2017. Chicago, IL.
71. CBCRP Chemicals Testing Group Update. April 6, 2017. Invited Speaker. "Environmental Chemical Interactions with Cancer Pathways: EWG Nomination & Literature Search/Systematic Review Plan." Presented via webinar. San Francisco, CA.
72. NIEHS Assembly of Laboratory Scientists (AoLS) monthly meeting series. February 14, 2017. Guest Speaker: "How to prepare for FOIA requests." NIEHS, RTP, NC.
73. Children's Environmental Health Institute, Ninth Biennial Scientific Symposium: Emerging Science of Endocrine Disruptors and the Unborn Child. March 29, 2017. Invited Speaker. "The Endocrine Society's Second Scientific Statement on Endocrine Disrupting Chemicals (EDC-2)." Dell Children's Medical Center of Central Texas, Austin, TX.
74. California Breast Cancer Research Program QuickStart Workshop, May 24-25, 2016. Invited lecturer & mentor. "Environmental Impact on Breast Development and Cancer Risk: What you need to know." Los Angeles, CA.
75. NTPL Summer seminar series. July 13, 2016. Discussion Leader. "TBBPA-induced Health Effects." NIEHS, NTP, NC.
76. Center for Research on Families, Tay Gavin Erickson Lecture Series, Nov 28-30, 2016. Invited speaker & mentor. "Early Life Chemical Exposures and Female Puberty-Related Outcomes in Animal Models." University of Massachusetts, Amherst, MA.
77. EHS FEST: Breast Cancer and the Environment Research Program (BCERP) Annual Meeting, December 5, 2016. Invited Speaker. "Environmental Impact on Breast Development and Cancer Risk: What is happening at the NTP?" Durham, NC.

78. Duke University – Environmental Toxicology Program Invited Lecture ENV815. February 18, 2015. “Mammary Gland Development and Environmental Impact.” Durham, NC.
79. CEH Alternative Sources of Energy - Energy Development & Reproductive Health. Invited Speaker. April 6, 2015. “Chemical Exposures & Life-Long Reproductive Health Impacts.” Webinar.
80. NTPL Summer seminar series. July 14, 2015. Discussion Leader. “Reproductive Endocrinology Group – A team effort.” NIEHS, RTP, NC.
81. ACVP/ASVCP/STP Combine, October 18, 2015. Invited Speaker. “Methodological Advancement in the Mammary Gland: New Insights for Detecting Mammary Carcinogenesis.” Minneapolis, MN.
82. NTP/FDA Research Updates. February 24, 2014. Presenter. “Preliminary Outcomes in CD-1 Mouse Model: Half-lives of BP analogs in pregnant mice.” NIEHS, RTP, NC.
83. Environmental Endocrine Disruptor Gordon Research Conference. May 12, 2014. Invited Speaker. “Lifelong Impact on the Female Reproductive System in Mice Prenatally Exposed to Perfluorooctanoic Acid.” Il Ciocco, Italy.
84. Ramazzini Institute Workshop on Mammary Gland Evaluation, Invited Speaker. May 19, 2014. “The National Toxicology Program Approach to Mammary Gland Evaluation.” Bologna, Italy.
85. Collaborative on Health & the Environment (CHE). Invited Speaker. October 20, 2014. “Four Years After the President’s Cancer Panel Report: Recommendations and Next Steps. Environmental Effects on the Breast.” Webinar.
86. NC State University – Toxicology Program. Invited Speaker. October 29, 2014. “Lifelong Health Impact in Female Mice Prenatally Exposed to Perfluorooctanoic Acid.” Raleigh, NC.
87. Women’s Reproductive Environmental Health, “Multidisciplinary Project on DES and Metabolomic Markers – The Study Design,” January 30th, 2013. NIEHS, RTP, NC.
88. 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.
89. 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.
90. NIEHS Laboratory of Toxicology and Pharmacology Seminar Series, Nov 7, 2013. Invited Speaker. “Low-dose prenatal PFOA exposures and latent health effects in adult CD-1 mice.” RTP, NC.
91. Environmental Endocrine Disruptor Gordon Conference, June 3-8, 2012. Invited Speaker. “Endocrine Disruptors, Breast Development, and Breast Milk.” Mount Snow, VT.
92. Teratology Society Annual Meeting, June 25-28, 2012. Invited Speaker. “Early Life Environmental Exposures: Lifelong Impact on Mammary Gland Development and Function.” Baltimore, MD.
93. NIEHS Receptor Mechanisms Discussion Group Series, August 7, 2012. Invited Speaker. “Mammary gland as a sensitive target tissue for endocrine disruption.” NIEHS, RTP, NC.
94. 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.
95. Toxicology/Environment Strategy Advisor – Morris Animal Foundation and Colorado State University – Canine Lifetime Health Project, October 2-3, 2013. Denver, CO.
96. 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.
97. Breast Cancer and the Environment Research Program (BCERP) Annual Meeting, November 15-16, 2012. Invited Speaker. “Breast Cancer and Lifestage Susceptibility.” San Francisco, CA.
98. Public Interest Partners 2 Meeting, December 14th, 2012. Representing NTP. “The New and Improved NTP”. NIH, Bethesda, MD.
99. 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.
100. Collaborative on Health and the Environment (CHE) – Breast Cancer and the Environment. Conference broadcast on July 21, 2011.
101. CDC’s Division of Cancer Prevention and Control. Identifying Opportunities for Cancer Prevention during Preadolescence and Adolescence. August 9-10, 2011.
102. CDC’s Division of Cancer Prevention and Control. Breast Cancer in Young Women, September 12-14, 2011.

- “Environmental Chemicals Affecting Breast Cancer Risk.”
103. AACR Cancer Prevention Forum, October 23-25, 2011. “Life-stage susceptibility and low dose response as important factors in carcinogen identification.” Boston, MA.
 104. 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.
 105. 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.
 106. Collaborative on Health and the Environment (CHE) – IOM report: Comments and suggestions for the future. Conference broadcast on December 16, 2011.
 107. 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.
 108. New Jersey Department of Health briefing on Fenton’s Mammary Gland PFAA manuscripts. February 16, 2010.
 109. 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.
 110. 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.
 111. 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.
 112. Office of Prevention, Pesticides & Toxic Substances and Office of Water research update seminar, March 4, 2010. “Mammary gland effects following atrazine exposure.”
 113. 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.”
 114. 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.
 115. 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.”
 116. 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.
 117. 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.
 118. 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.
 119. 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.
 120. 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.
 121. 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.
 122. 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.
 123. 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.
 124. Mammary Gland Evaluation and Risk Assessment Workshop, November 2009. “Mammary Gland Round Robin and Assessment of Adverse Outcomes.” Oakland, CA.

US EPA-related 1998-2009:

125. 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.
126. 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.
127. European Congress on Obesity, May 2008. "Exposure parameters and doses of perfluorooctanoic acid (PFOA) required for body weight effects in mice." Geneva, Switzerland.
128. 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.
129. 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.
130. ISES/ISEE Joint Annual International Meeting, October 2008. "Perfluoroalkyl Acids in the Serum and Milk of Breastfeeding North Carolina Women." Pasadena, CA.
131. 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.
132. President's Cancer Panel - Pesticides, NCI, October 2008. "The Mammary Gland: A Tissue Sensitive to Environmental Exposures." Indianapolis, IN.
133. 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.
134. Frontiers in Environmental Science seminar series, NIEHS, June 2007. "The mammary gland as a sensitive tissue for detecting effects of environmental components." RTP, NC.
135. 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.
136. 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.
137. Perfluoroalkyl Acid (PFAA) Days, July 2006. "Effects of PFOA developmental exposure on reproductive tissues." RTP, NC.
138. American Association of Birth Centers, 22nd Annual Meeting, September 2006. "Environmental Components Found in Breast Milk: Findings from the MAMA Study." Valley Forge, PA.
139. NIEHS, Epidemiology Division, October 2006. "Immediate and long-term health impacts of prenatal exposure to PFOA in mice." RTP, NC.
140. Atrazine Workshop, April 2005. "Gestational Atrazine Exposure in the Rat: Effects on Mammary Gland Development and Function in Multiple Generations." Iowa City, IA.
141. US EPA Science Forum 2005, May 2005. "Methods Advancement for Milk Analysis: Successful Inter-Agency and NHEERL Collaborations." Washington D.C.
142. Endocrine Society EDC Forum, June 2005. "Novel effects of dioxin on breast development, function, and susceptibility to cancer." San Diego, CA.
143. International Conference on Environmental Mutagens, September 2005. "Environmental Estrogens and Cancer." San Francisco, CA.
144. International Society for Exposure Analysis, November 2005. "Milk Monitoring for Environmental Contaminants." Tucson, AZ.
145. 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.
146. 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.
147. Washington State University, Center for Reproductive Biology, July 2004. "Prenatal environmental exposures and altered mammary tissue development." Pullman, WA.
148. 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.
149. University of WI-Madison, ERPP Distinguished Alumni seminar, July 2003. "The Alumni Perspective: Careers in

- Government." Madison, WI.
150. National Children's Study Pilot Review Update, November 2003. "Methods Advancement in Milk Analysis (MAMA Study)." RTP, NC.
 151. 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.
 152. Lab-On-A-Chip Conference, January 2002. "Use of DNA Arrays in Environmental Toxicology". (Presented by John Rockett). Switzerland.
 153. 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.
 154. 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.
 155. North Carolina Central University, Toxicology Program, March 2002. "Environmental Toxicants and Disrupted Mammary Gland Development: Breast Cancer Susceptibility". Durham, NC.
 156. National Cancer Institute, "Gene/Environment Interactions in Children's Health," March 2002. "Developmental Exposures to Endocrine Disruptors". Bethesda, MD.
 157. 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.
 158. Dioxin Meetings, August 2002. "Role of Developmental Exposure to Endocrine Disruptors in Cancer." (Presented by L. Birnbaum), Barcelona, Spain.
 159. 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.
 160. 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.
 161. Environmental Mutagen Society, September 2001. "Environmental Toxicants and Disrupted Mammary Gland Development: The window of susceptibility". RTP, NC.
 162. Environmental Endocrine Disruptors, December 2001. "Role of Developmental Exposures to Endocrine Disruptors in Cancer". (Presented by Linda Birnbaum). Lisbon, Portugal.
 163. Dioxin 2000 Meeting, August 2000. "Adverse effects of TCDD on mammary gland development in Long Evans rats: A two generational study." Monterey, CA.
 164. Application of DNA Microarrays to Toxicology, January 1999. NHEERL Workshop, U.S. EPA. "Gene expression during breast development." RTP, NC.
 165. 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.

Prior to government employment:

166. Lineberger Comprehensive Cancer Center Work in Progress Seminars, UNC-Chapel Hill, January 1997. "Sequences regulating cell-specific EGF gene expression." Chapel Hill, NC.
167. Lineberger Comprehensive Cancer Center Seminar series, UNC-Chapel Hill, October, 1993. "Regulation of Epidermal Growth Factor." Chapel Hill, NC.
168. 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.
169. 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.
170. 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.
171. 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.
172. 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.
173. 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.

Invited Media Commentary & Interviews (incomplete; trackable only since 2011)

1. Invited Commentary: “Are non-stick pans safe?” by Isobel Whitcomb. Life’s Little Mysteries. Oct 5, 2020. [https://www.livescience.com/are-nonstick-pans-toxic.html?ct=t\(RSS_EMAIL_CAMPAIGN\)](https://www.livescience.com/are-nonstick-pans-toxic.html?ct=t(RSS_EMAIL_CAMPAIGN))
2. Invited Commentary: Special Issue of *Reproductive Toxicology*. “Womb to Breast Cancer”. Fenton and Birnbaum. Feb 2020.
3. Research Highlight: “What Men Can Teach Us About Breast Cancer” by Florence Williams. © 2017 Audible, Amazon. https://www.audible.com/socialshare?id=019cb9a6-1c3a-44ad-88db-7799c2979a3d&source_code=CHLGBWS0603160001
4. Research Highlight: “Suzanne Fenton discusses the effects of early life chemical exposure” by Mary Yates. Daily Collegian-University of Massachusetts. November 30, 2016. <http://dailycollegian.com/2016/11/30/suzanne-fenton-discusses-the-effects-of-early-life-chemical-exposure/>
5. Expertise Interview. “Determining safe PFOA level an uncertain science” by Kyle Bagenstose and Jenny Wagner. The Intelligencer. November 7, 2016. http://www.theintell.com/news/horsham-pfos/determining-safe-pfoa-level-an-uncertain-science/article_89589d4c-9f89-11e6-a125-bfc90f2b032a.html
6. Research Highlight. “Institutes in the Lead: Identifying Environmental Factors in Breast Cancer” by Nate Seltenrich. Environ Health Perspect; 124(11): a199. Published online 2016 November 1. <https://ehp.niehs.nih.gov/124-a199/>
7. Outstanding Service. “EHP Highlights of the Past Year” by Sally Perreault Darney. Environ Health Perspect; 124(8). Published online 2016 August 1. <https://ehp.niehs.nih.gov/ehp777/>
8. Expertise Interview. “Gillibrand seeks ongoing health monitoring in PFOA-affected areas” by Michael Goot. The Post Star. July 8, 2016. http://poststar.com/news/local/gillibrand-seeks-ongoing-health-monitoring-in-pfoa-affected-areas/article_903bb670-0acf-5715-bf5d-0a7c8805c92d.html
9. Expertise Interview. “N.Y. Sen. Gillibrand meets with local residents on PFOA contamination” by Edward Damon. The Berkshire Eagle. July 8, 2016. <http://www.berkshireeagle.com/stories/ny-sen-gillibrand-meets-with-local-residents-on-pfoa-contamination,113642>
10. Expertise Interview. “Senator hears PFOA fears” by Nicholas Bogel-Borroughs. Times Union. July 9, 2016. <http://www.timesunion.com/tuplus-local/article/Senator-hears-PFOA-fears-8349229.php>
11. Research Highlight. “Society Unveils Summary of Second Scientific Statement on Endocrine-Disrupting Chemicals” by the Endocrine Society. Sept 28 - October 2, 2015. <http://www.endocrine.org/membership/email-newsletters/endocrine-insider/2015/october-2-2015> Story also run by EurekaAlert; BioSpace; Newswise; DeviceSpace; Nutrition Horizon.
12. Research Highlight. “Identifying Potential Breast Carcinogens: A New Approach” by Wendee Nicole. Environ Health Perspect; 123(12): a305. Published online 2015 December 1. <https://ehp.niehs.nih.gov/123-a305/>
13. Expertise Interview. “Women’s Exposure to Chemicals May Explain Unexpected Breast Cancer” by Lindsey Konkel. Scientific American. February 25, 2013. <https://www.scientificamerican.com/article/womens-exposure-to-chemicals-may-explain-unexpected-breast-cancer/> Also covered in Environmental Health News, AlterNet Online, East Bay Express Online, YubaNet; Mother Nature Network, NUVO Online.
14. Expertise Interview. “Frogs feminized, but atrazine’s effects on people uncertain” by Brian Bienkowski and Marla Cone. Environmental Health News. June 17, 2013. <http://www.environmentalhealthnews.org/ehs/news/2013/atrazine-health> Also covered by YubaNet and NaturalNews.com.
15. Expertise Interview. “How to protect your baby & kids from toxins” by Sarah Blight. © 2013 Your Baby Booty. <http://yourbabybooty.com/interviews/how-to-protect-your-baby-kids-from-toxins-with-suzanne-fenton/>
16. Research Highlight. Sept 2012. “Fenton examines effects of exposure to endocrine disrupting chemicals” by Sonika Patial. Environmental Factor, NIEHS Publication. <http://www.niehs.nih.gov/news/newsletter/2012/9/science-fenton/index.htm>

17. Research Interview: "Obesogens: An Environmental Link to Obesity" by Wendee Holtcamp. *Environ Health Perspect*; 120(2): a62–a68. Published online 2012 February 1. doi: [10.1289/ehp.120-a62](https://doi.org/10.1289/ehp.120-a62)
18. Expertise Interview. "Getting It Right: BPA and the Difficulty Proving Environmental Cancer Risks" by Mike Fillon. *Journal of the National Cancer Institute*; 104(9): 652-4. May 2, 2012. <http://jnci.oxfordjournals.org/content/104/9/652.full.pdf+html>
19. Research Interview. "Perinatal environmental exposures affect mammary development, function, and cancer risk in adulthood" by Anna Rascouët-Paz. Annual Reviews interview – June 2012. <http://soundcloud.com/annualreviews/an-interview-with-suzanne>
20. Expertise Interview: "In Oregon, Residents Struggle to Solve a Pesticide Mystery" by Ingrid Lobet. *The Atlantic*. August 2012. <http://www.theatlantic.com/national/archive/2012/08/in-oregon-residents-struggle-to-solve-a-pesticide-mystery/261083/> Also covered on Northwest Public Radio.
21. Expertise Interview. "Majestic Forests in Oregon at Risk from Timber Industry and Chemical Spraying" by Ingrid Lobet. *PBS News Hour*. Sept 2012. http://www.pbs.org/newshour/bb/environment/july-dec12/forests_09-12.html Also covered by R&D Magazine Online; Mage Soapbox; WSKG.
22. Research Interview. 2011. Podcast interview with Ashley Ahearn "Early Influences on Mammary Gland Development, with Suzanne Fenton". *Environ Health Perspect* 119 <http://dx.doi.org/10.1289/ehp.trp100111>.
23. Research Highlight. "Scientists Warn Chemicals May Be Altering Breast Development" by Marla Cone. *Scientific American*. June 22, 2011. <https://www.scientificamerican.com/article/scientists-warn-chemicals-altering-breast-development/> Also covered by Environmental Health News.
24. Expertise Interview. "On Cancers Trail" by Florence Williams. *High Country News*. May 26, 2008. http://www.hcn.org/issues/371/17708/print_view

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Complete and Pending Publication Articles

1. Oladosu J.I., Jackson G.L., Mantooth S., Brody J., Gehlert S., Morello-Frosch R., Rasanayagam S., Solomon G., Fenton S.E. Characterizing Environmental Mixtures and Their Contribution to Breast Cancer Risk: State of the Evidence. *Int J Environ Res Public Health*. (In co-author review)
2. Mauge-Lewis K., McCord J., Ruyle B.J., Sunderland E.M., Ferguson S., Strynar M.J., Chappell V.A., Fenton S.E. Bioactivity of fluorotelomer-containing aqueous film-forming foams (AFFFs) in human liver cells: Content characterization and impact. *Ecotox & Environ Safety* (in co-author review).
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Current Collaborations and Research Support

My research support, employee compensation, and trainee/fellowstipends are derived fully from the intramural research funds of the NIEHS (Z01ES102785; SEF). Current collaborations:

1. R21 262309PA-18-489, Collaborator. "Development in a dish: an ex-vivo fetal mammary assay for toxicological research". Ana Soto, Tufts University, PI. MOU with Tufts Univ. from Sept 2018- Aug 2022.
2. 5R01ES032730-02, Consultant. "Developing an in vitro to in vivo pipeline of mammary gland exposure-response relationships to per- and poly-fluoroalkyl substances (PFAS)". Amy Oldenburg and Matthew Lockett, UNC-Chapel Hill, Co-PIs. January 2021-2025.
3. NIEHS Cross-Divisional Research Program: "Characterizing preeclampsia by race/ethnicity: Urinary biomarker and emerging/legacy phthalate exposure relationships". Funded 2021-2024 (FY22-25 student support). PIs=SE Fenton and KK Ferguson.
4. NIEHS Cross-Divisional Research Program: "Characterizing the exposome by race/ethnicity: Serum endocrine disrupting chemical profiles and resulting bioactivity". Funded in FY22-FY23. PIs=SE Fenton & AJ White.
5. UNC – DNTP Translational Study collaboration: "Effects of PFAS on chemotherapy resistance in an ovarian cancer cell model". Supported by UNC CITEM T32 and special grants to Dr. Imran Rizvi.
6. DNTP – Univ Montreal MOU: "Measures of PFAS in human milk and serum of lactating women". Supported by Dr. Marc-Andr  Verner. Samples provided by Fenton lab.