



TARA SABO-ATTWOOD, PH.D.

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EDUCATION

- Doctor of Philosophy in Biomedical Sciences, concentration in Pharmacology and Therapeutics and Human and Environmental Toxicology, University of Florida, Gainesville, FL, 2003.
- Bachelor of Science in Medical Technology, specialty in Cytogenetics, University of Connecticut, Storrs, CT. 1996.

PROFESSIONAL EXPERIENCE

- **Associate Professor**, *December 2010 - present*
University of Florida, Department of Environmental and Global Health & Center for Environmental and Human Toxicology, Gainesville, FL.
- **Director of Nano-Environmental Focus Group**, *2007- 2010*
University of South Carolina NanoCenter, Columbia, SC.
- **Assistant Professor**, *2006 - 2010*
University of South Carolina, Arnold School of Public Health, Department of Environmental Health Sciences, Columbia, SC.
- **Instructor**, *2005*
Cell and Molecular Biology, Johnson State College, Johnson, VT.
- **Instructor**, *2004*
Biology of Nutrition and Fitness, Champlain College, Burlington, VT.
- **Post Doctoral NIH Fellow**, *2003-2005*
University of Vermont, Department of Environmental Pathology, Burlington, VT.
- **Graduate Research Fellow**, *1998-2003*
University of Florida, Interdisciplinary Program in Biomedical Sciences, Department of Pharmacology and Therapeutics and Center for Environmental and Human Toxicology, Gainesville, FL.

- **Cytogenetic Technologist, 1998-2001**
University of Florida Cytogenetics Laboratory, Department of Pediatric Genetics, Gainesville, FL.
- **Coordinator of Genetic Research Programs, 1996-1998**
University of Florida Cytogenetics Laboratory, Department of Pediatric Genetics, Gainesville, FL

HONORS AND AWARDS

- National Academy of Sciences Kavli Fellow, Nanotoxicology, *2011*
- University of South Carolina 'Rising Star' Award, *2010*
- Nomination for Arnold School of Public Health Excellence in Teaching Award, *2010*
- Nomination for University of South Carolina Teacher of the Year Award, *2009*
- University of South Carolina Mortar Board Excellence in Teaching Award, *2008*
- Nano-Environmental Team Leader, University of South Carolina NanoCenter, *2007-2010*
- GeneSifter Travel Award, *2005*
- Postdoctoral Vermont Cancer Center Award, *2004*
- Patent for Largemouth Bass Gene Chip, University of Florida (EcoArray Inc. #20040166509), *2004*
- NIEHS Postdoctoral Fellowship, University of Vermont, *2003*
- Medical Guild Competition Award, University of Florida, *2001*

PROFESSIONAL SOCIETIES

- Society of Environmental Toxicology and Chemistry (SETAC)
- Society of Toxicology (SOT)
- American Physiological Society (FASEB)

PUBLICATIONS

- Ferguson, P.L; **Sabo-Attwood, T.**; Kolok, A.G.; Getzinger, G.J.; Dominguez, G; McGee, S.; and Bone, A.J. Effects and occurrence of organic microcontaminants in coastal stormwater retention ponds impacted by runoff from a wastewater-irrigated golf course. In preparation for *Environmental Science & Technology*.
- Leslyn Bersch-Richardson, Sanpui Pallab, Ariette Schertz, Navid Saleh, P. Lee Ferguson, Iftakar Kahn, and **Tara Sabo-Attwood**. Modulation of Toll-like Receptor 2 by Pristine Single-Walled Carbon Nanotubes (*Submitted*).
- Jessica Clark, P. Lee Ferguson, Cody Smith, Joseph Bisesi, and **Tara Sabo-Attwood**. Differential Recruitment of SRC-1 and SRC-3 to the Estrogen Receptor by Xenoestrogens. (*Submitted*).
- Kashiwada, Shosaku; Ariza, Maria; Kawaguchi, Tomohiro; Nakagame, Yuya; Jayasinghe, B. Sumith; Gärtner, Karin; Nakamura, Hiroshi; Kagami, Yoshihiro; **Sabo-Attwood, Tara**; Ferguson, Lee; Chandler, G. Thomas. Silver nano-colloids disrupt medaka embryogenesis through vital gene expressions. *Environmental Science and Technology* (In review).
- Jaime Richey, Wilfried Karmaus, Hongmei Zhang, **Tara Sabo-Attwood** and Susan Steck. The Association of Age, Race and Ethnicity, and Body Mass Index with Sex Steroid Hormone Marker Profiles among Men in the National Health and Nutrition Examination Survey (NHANES III) (*In Review*).
- Gustavo Dominguez, Nancy Denslow, Kevin Kroll, Joe Quattro and **Tara Sabo-Attwood**. Identification and Temporal Expression of the Vitellogenin Receptor in Largemouth Bass (*In revision, Biology of Reproduction*).
- Hongmei Zhang, Xianzheng Huang, Jianjun Gan, Wilfried Karmaus, **Tara Sabo-Attwood**. Bayesian adaptive calibration and variable selection in linear models with mismeasured covariates (*In Review*).
- McLarty JL, Melendez GC, Levick SP, Bennett S, **Sabo-Attwood T**, Brower GL, and Janicki JS (2012). Estrogen modulates of inflammation-related genes in male rats following chronic volume overload. *Physiol Genomics*. Jan 24.
- Richard D Handy, Geert Cornelis, Teresa Fernandes, Olga Tsyusko, Alan Decho, Chris Metcalfe, **Tara Sabo-Attwood**, Jeffery Stevens (2012). Ecotoxicity test methods for engineered nanomaterials: Practical experiences and recommendations from the bench. *Environ Toxicol Chem*. Jan;31(1):15-31.

- Karin Gaertner, Joseph Quattro, P. Lee Ferguson, G. Thomas Chandler and **Tara Sabo-Attwood**. (2012) Identification and expression of the ecdysone receptor in the harpacticoid copepod, *Amphiascus tenuiremis*, in response to fipronil. *Ecotoxicol Environ Saf.* Feb;76(2):39-45.
- **Tara Sabo-Attwood**, Cathy J. Murphy, Jason Unrine, Lee Newman (2011). Uptake, distribution and toxicity of gold nanoparticles in tobacco (*Nicotiana xanthi*) seedlings. *Nanotoxicology*. May 16.
- **T Sabo-Attwood**, M Ramos-Nino, Maria Eugenia-Ariza, Maximillian MacPherson, Chad Steele, Kelly Butnor and Brooke T. Mossman (2011). Increased lung epithelial cell expression of osteopontin and altered gene expression, cytokine production and inflammation in an inhalation model of pulmonary injury using osteopontin null mice. *Amer. J. Pathology*, May;178(5):1975-85.
- David Brass, Mary Dunkel, Sarah Reilly, Jacob Tobolewski, **Tara Sabo-Attwood**, Sean McGee and Cheryl Fattman (2010). Gender-specific responses to experimental silica-induced lung fibrosis. *Am J Physiol Lung Cell Mol Physiol*. Nov;299(5):L664-71.
- Ogbuanu Ikechukwu, Karmaus Wilfried, Zhang Hongmei, **Sabo-Attwood Tara**, Ewart Susan, Roberts Graham, Arshad Hasan (2010). Birth order modifies the effect of IL13 gene polymorphisms on serum IgE at age 10 and skin prick test at ages 4, 10 and 18: a prospective birth cohort study. *Allergy Asthma Clin Immunol.*, 6(1):6.
- Kaur G, Valarmathi MT, Potts JD, Jabbari E, **Sabo-Attwood T**, Wang Q (2009). Regulation of osteogenic differentiation of rat bone marrow stromal cells on 2D nanorod substrates. *Biomaterials*. Mar;31(7):1732-41.
- S. Kashiwada, H Tatsuta, H Ishikawa, N Mayamoto, M Itoh, **T Sabo-Attwood**, PL Ferguson, GT Chandler, Y Magara. (2009) Life-long exposures of endocrine disruptors cause declines of population growth rates in Japanese medaka, *Oryzias latipes*, *Japan Journal of Environmental Toxicology* 12(1):55-58.
- Fukagawa N, Muyao L, **Sabo-Attwood T**, Timblin C, Butnor K, Gagne J, Steele C, Taatjes D, Huber S, and Mossman BT. (2008). Inhaled Asbestos Exacerbates Atherosclerosis in apolipoprotein E-deficient Mice via CD4+ T Cells. *Environmental Health Perspectives* Sep;116(9):1218-25.
- Kashiwada S, Tatsuta H, Kameshiro M, Sugaya Y, **Sabo-Attwood T**, Chandler GT, Ferguson PL, Goka K. (2008). Stage-dependent Differences in Effects of Carbaryl on Population Growth Rate in Japanese Medaka (*Oryzias latipes*). *Environ Toxicol Chem*. May 22:1.
- Christopher B. Manning, **Tara Sabo-Attwood (shared first authorship)**, Raymond F. Robledo, Maximilian B. MacPherson, Mercedes Rincon, Pamela Vacek, David Hemenway, Douglas J Taatjes, Patty J. Lee, and Brooke T. Mossman. (2008) Targeting the MEK1

Cascade in Lung Epithelium Inhibits Proliferation and Fibrogenesis by Asbestos. *Am J Respir Cell Mol Biol* May;38(5):618-26.

- Sean Norman, John Stone, Anand Gole, Cathy Murphy, and **Tara Sabo-Attwood**. (2007) Targeted Photothermal Lysis of the Pathogenic Bacteria, *Pseudomonas aeruginosa*, Using Gold Nanorods. (2008) Jan;8(1):302-6.
- Maria E Ramos-Nino, Steve R Blumen, **Tara Sabo-Attwood**, Joanna Gell, Harvey Pass, Maurizio Bocchetta, Deborah Altomare, Barbara Kroczyńska, Michele Carbone, Joseph Testa, Nicholas Heintz, and Brooke T. (2007) HGF Mediates Cell Proliferation of Human Mesothelioma Cells Through a PI3K/MEK5/Fra-1 Pathway. *American Journal of Respiratory Cell and Molecular Biology*. 2008 Feb;38(2):209-17.
- **Sabo-Attwood, T.**, Blum, J., Kroll, K., Patel, V., Birkholz, D., Szabo, N., and Denslow N.D. (2007) Distinct expression and activity profiles of largemouth bass estrogen receptors in response to estradiol and nonylphenol. *J Mol Endo* Oct;39(4):223-37.
- Raj JU, Aliferis C, Caprioli RM, Cowley Jr AW, Davies PF, Duncan MW, Erle DJ, Erzurum SC, Finn PW, Ischiropoulos H, Kaminski N, Kleeberger SR, Leikauf GD, Loyd JE, Martin TR, Matalon S, Moore JH, Quackenbush J, **Sabo-Attwood T**, Shapiro SD, Schnitzer JE, Schwartz DA, Schwiebert LM, Sheppard D, Ware LB, Weiss ST, Whitsett JA, Wurfel MM, Matthay MA. (2007) Genomics and Proteomics of Lung Disease. *Am J Physiol Lung Cell Mol Physiol*. Apr 27.
- **Sabo-Attwood, T.**, Ramos, M.E., Bond, J., Butnor, K., Heintz, N., Gruber, A., Vacek, P., and Mossman, B.T. (2005) Gene Expression Profiles Reveal Increased mCLCA3 Expression and Mucus Metaplasia in a Murine Model of Asbestos-Induced Fibrogenesis. *Am J Pathol*. Nov;167(5):1243-56.
- Ramos-Nino, ME, Vianale, G., **Sabo-Attwood, T.**, Mutti, L., and Mossman, B.T. (2004) Human Mesothelioma Cells Exhibit Tumor Cell-Specific Differences in Phosphatidylinositol 3-kinase/AKT Activity that Predict the Efficacy of Onconase. *Molecular Cancer Therapeutics* 2005; 4(5).
- **Sabo-Attwood, T.**, Ramos, ME, and Mossman B.T. (2005) *Oncology; An Evidence Based Approach*, Chapter 11 Environmental Carcinogens. Edited by Chang A.E., Ganz, P.A., Hayes, D.F., Kinsella, T., Pass, H.I., Schiller, J.H., Stone, R., and Strecher, V. Published by Springer-Verlag.
- **Sabo-Attwood, T.**, Kroll, KJ, and Denslow, N.D. (2004) Differential Expression of Largemouth Bass Estrogen Receptor Isoforms Alpha, Beta, and Gamma By Estradiol. *Molecular and Cellular Endocrinology* 218, 107-118.
- Larkin, P., **Sabo-Attwood, T.**, Kelso, J., and Denslow, ND. (2003) Analysis of gene expression profiles in largemouth bass exposed to the endogenous hormone, estradiol, and the environmental contaminants, nonylphenol, and p, p'-DDE. *EcoToxicology* 12, 463-468.

- Larkin, P., **Sabo-Attwood, T.**, Kelso, J., and Denslow, N. (2002) Gene expression analysis of largemouth bass to estradiol, nonylphenol, and p,p'-DDE. *Comparative Biochemistry and Physiology Special Issue, Functional Genomics*, 133, 543-557.
- **Sabo-Attwood, T.**, Larkin, P., Kelso, J., and Denslow, N.D. (2002) Gene expression profiles of largemouth bass exposed to nonylphenol and ICI 182,780. *Endocrine Disruptors: Mechanisms and Impacts, International Congress on the Biology of Fish*, 17-28.

FUNDING

ACTIVE:

- NIHR01, Contribution of Toll-like Receptors in the Pulmonary Response to Nanoparticles and Pathogens. **Sabo-Attwood T (PI)**, Lednicky J (Co-PI), Saleh N (Co-PI), Ferguson L (Co-PI). \$ 1,533, 362, 2012-2017.
Scored 11th percentile, payline 15th percentile, May 2012 council meeting.
- NSF/CBET, Influence of diameter and chirality of single-walled carbon nanotubes on their fate and effects in the aquatic environment. Saleh (PI), **Sabo-Attwood (Co-PI)**, Ferguson (Co-PI). \$399,319, 2009-2012.
- NIH/NIEHS, Mechanisms of Xenoestrogen Stress: A Proteomic and Functional Genomic Approach. **Sabo-Attwood (PI)**, Ferguson (PI). \$378,000, 2009-2012.
- NSF/CBET, Plant Uptake and Interaction with Nanoparticles. Newman (PI), **Sabo-Attwood (Co-PI)**. \$278,000, 2008-2012.
- NSF/NIRT, Intuitive toxicology and Public Engagement. Berube (PI), **Sabo-Attwood (Co-PI)**. \$1,399,258, 2008-2013.
- NOAA Coastal Services Center, Using gene expression profiles of estuarine grass shrimp (*Palaemonetes pugio*) as biosensors/monitors of coastal ecosystem health. Quattro (PI), **Sabo-Attwood (Co-PI)**. \$366,000, 2009-2012.

COMPLETED:

- USC Medical School, The Interdisciplinary Conference on Pregnancy and the Health of Women and Children. Karmaus (PI), **Sabo-Attwood (Co-PI)**, Zhang (Co-PI). \$2,000, 2009.
- NIH/NHLBI, The influence of gender on molecular signatures of fibrotic lung disease. **Sabo-Attwood (PI)**, Zhang (PI), Karmaus (Co-PI). \$150,000, 2008-2010.

- NIH/NIEHS, Mechanisms of Asbestos-Induced Clca1 and Mucin in Lung Epithelium. **Sabo-Attwood (PI)**, \$320,000, 2006-2010.
- SC EPSCoR/IDEA, Stress, endocrine disruption, and adverse pregnancy outcomes. Karmaus (PI), **Sabo-Attwood (Co-PI)**, Zhang (Co-PI), Gregg (Co-PI). \$50,000, 2008-2009.
- University of South Carolina ASPH Seed Grant Program, Gene Profiling of Lung Epithelial Cells Exposed to Single-Walled Carbon Nanotubes. **Sabo-Attwood (PI)**. \$10,000, 2007-2008.
- USC Honors College SURF Award. **Sabo-Attwood (PI)**. \$3,000, 2008-2009.
- USC NanoCenter, Nanomaterials in the Environment. **Sabo-Attwood (PI)**. \$170,000, 2009.
- USC Research Foundation, Proposal for a Research Faculty Position in Environmental Toxicogenomics, Centenary Plan. **Sabo-Attwood (PI)**, Chandler (Co-PI). \$143,125, 2007-2010.
- USC Honors College SURF Award. **Sabo-Attwood (PI)**. \$3,000, 2010-2011.

MENTORING

CURRENT:

Joe Bisesi PhD, postdoctoral associate.

Pallab Sanpui PhD, postdoctoral associate.

Gustavo Dominguez MS, doctoral candidate (Graduation Summer 2012).

Ley Cody Smith, MS student

Kunj Shroff, undergraduate researcher

Camille Estupijan, graduate student volunteer

Karishma Chhabria, graduate student volunteer

PAST:

Jessica Clark, postdoctoral associate, 2008-2010

Karin Gaertner, doctoral candidate, 2007-2010

Leslyn Bertch-Richardson, MS, 2007-2009

Shivani Patel, Undergraduate researcher, 2009

Avnika Amin, High School Student, 2008

Arch Martin, 2010

Maria Eugenia-Ariza, Research Assistant Professor (CP program, Sabo-Attwood PI), 2007-2010

Sean McGee, MS, 2010

Gustavo Dominguez, MS, 2009

Shosaku Kashiwada, Research Assistant Professor (Co-advise with Chandler), 2007-2010

Joni Dunmeyer, Undergraduate researcher, 2007-2008

KC Highland, Magellan Scholar (Co-advised with PL Ferguson), 2007-2009
Kitty Tryon, High School Student, 2006-2007

STUDENT AWARDS:

- 1st place poster presentation Sean McGee, USC Graduate Research Day, 2009.
- 1st place poster presentation Leslyn Bertch-Richardson, USC Graduate Research Day, 2009.
- 3rd place poster presentation Karin Gaertner, USC Graduate Research Day, 2009.
- Outstanding Graduate Student Award in ENHS, Gustavo Dominguez, 2009.
- Best Poster Award Sean McGee, Organization for the Study of Sex Differences Conference, 2010

STUDENT COMMITTEES:

CURRENT:

Candice Lavelle, Dept of Physiological Sciences, UF
Georgia Hinkley, Dept of Physiological Sciences, UF
Claudia T. Kusano, Department of Epidemiology, UF
Sean McGee, Dept of Environmental Health Sciences, USC
Lisa Wickliffe, Dept of Environmental Health Sciences, USC
Sumith Jayasinghe, Dept of Environmental Health Sciences, USC
Katie Allen, Dept of Biology, USC
Jennifer McLarty, USC School of Medicine, Department of Cell Biology and Anatomy, USC
Keisha Nobles, Dept of Biostatistics, USC
Nikki Sitasuwan, Dept of Chemistry and Biochemistry, USC

COMPLETED:

Justin Jones, Dept of Chemistry and Biochemistry, USC
Jessica Clark, Dept of Chemistry and Biochemistry, USC
Lauren Shaw, Dept of Chemistry and Biochemistry, USC
Marion Lawrence-Snyder, Dept of Chemistry and Biochemistry, USC
Boyd Pritchard, Dept of Chemistry and Biochemistry, USC
Ike Ogbuanu, Dept of Epidemiology and Statistics, USC
Austin Faulkner, Dept of Chemistry and Biochemistry, USC
Cole Hexel, Dept of Chemistry and Biochemistry, USC
Gagan Deep, Dept of Chemistry and Biochemistry, USC
Benjamin Bey, Dept of Environmental Health Sciences, USC
Miguel Uyaguari, Dept of Environmental Health Sciences, USC
Hilary Sparks, Dept of Environmental Health Sciences, USC
Jamie Richey, Dept of Epidemiology and Biostatistics, USC
Marcie Eaddy, Dept of Biology, USC
Ori Barber, Department of Engineering, UF

TEACHING EXPERIENCE

GRADUATE COURSES:

- PHC 6313, Environmental Concepts in Public Health, University of Florida, 2011, 2012
Student evaluations for 2011; 4.38 (highest obtainable value 5.0)
- ENHS 774, Risk Assessment and Interactions of Environmental Toxicants,
University of South Carolina, 2006-2010.
Student evaluations 2007 (4.53); 2008 (4.83); 2009 (4.92)
- ENHS 793, Molecular Techniques of Environmental Science and Toxicology (2007)
Student evaluations 4.84
- ENHS 793. Environmental Genomics (2009), University of South Carolina.
Student evaluations 4.9.
- ENHS 765, Applied Research Seminar, University of South Carolina, 2009.
Student evaluations 4.8.
- ENHS 790, Independent Study, University of South Carolina, 2006-2010.

UNDERGRADUATE COURSES:

- Cell and Molecular Biology, Johnson State College, Johnson, VT, 2005.
- Biology of Nutrition and Fitness, Champlain College, Burlington, VT, 2004.

LECTURES:

- ENHS 761, Ecotoxicology of Aquatic Systems, Genomic and Chemical Fingerprints of
Complex mixtures, University of South Carolina, *March 29, 2012.*
- IDH 3931, Seminar for Life Series, Environmental Molecular Toxicology, University of
Florida, *Nov 1, 2011.*
- Pathology 710, Neoplasia, Environmental Carcinogenesis, University of South Carolina,
April 6, 2010.
- ENVR 202, Introduction to Environmental Studies, Toxicology of Endocrine Disrupting
Compounds and Emerging Contaminants (Nanomaterials), University of South Carolina,
February, 18, 2010.
- BIOS 775, Biostatistical Aspects of Bioinformatics, Gene Expression Analysis, University

of South Carolina, *October 28, 2009.*

- Carolina Master Scholar Program for “Bionanotechnology”, University of South Carolina, *2009.*
- ENVR 350 Intro to Nanotechnology (2 lectures), Introduction to Nanotoxicology, University of South Carolina, *2007.*
- Technology, Society, and the Environment Class, Guest for round table discussion on intuitive toxicology, University of South Carolina, *2007.*
- CHEM 729/759 Proteomics, Intro to Genomics, University of South Carolina, *2006.*

PUBLICATION OF ABSTRACTS

- Smith C, Clark J, Ferguson PL and **Sabo-Attwood T**. Differential Recruitment of Estrogen Receptor Co-Activators by Xenoestrogens. Society of Toxicology, San Francisco CA, *March 11 – 17, 2012.*
- **Sabo-Attwood T**, Clark, J, Smith, C, and Ferguson, PL. Differential Recruitment of Estrogen Receptor Co-Activators by Xenoestrogens. NIEHS ARRA Grantees Invited Symposium. Raleigh, NC, *January 17-19, 2012.*
- **Sabo-Attwood T**, The Slippery Slope of Engineered Nanomaterials; Finding a Balance Between Advancing Technology and Potential Toxicity. Kavli symposium supported by the National Academy of Sciences, Longbeach, CA, *November 17-21, 2011.*
- Dominguez G, **Sabo-Attwood T**, Denslow ND, Kroll, K, and **Sabo-Attwood T**. Regulation of the transcriptional control of the largemouth bass vitellogenin receptor by androgens and waste water effluent mixtures. Society of Toxicology and Chemistry (SETAC), Boston, MA, *Nov 14 -17, 2011.*
- N.B. Saleh, I.A. Khan, P.L. Ferguson, **T. Sabo-Attwood**. Dynamic Measurement of Size and Fractal Structure of Single-Walled Carbon Nanotubes: Role of Chirality, Society of Toxicology and Chemistry (SETAC), Boston, MA, *Nov 14 -17, 2011.*
- L. Ferguson, **T. Sabo-Attwood**, A.S. Kolok, K. Ralston-Hooper, G.J. Getzinger, G.A. Dominguez, L.J. Macaulay, A.J. Bone. Effects and Occurrence of Organic Microcontaminants in Coastal Stormwater Retention Ponds Impacted by Runoff from a Wastewater-irrigated Golf Course, Society of Toxicology and Chemistry (SETAC), Boston, MA, *Nov 14 -17, 2011.*
- Hongmei Zhang, Xianzheng Huang, Jianjun Gan, Wilfried Karmaus, and **Tara Sabo-Attwood**. Bayesian Adaptive Calibration and Variable Selection in Linear Models with Mismeasured Covariates, Eastern North American Region (ENAR), *March 20- 23, 2011.*

- Sabo-Attwood T, Berstch-Richardson L, Ariza ME, Ferguson PL, Schiertz A, Saleh N and Kahn I. Activation of Toll-like Receptors by Single-Walled Carbon Nanotubes, Society of Toxicology (SOT), *March 9 2011*.
- Richey J, Zhang H, Steck, S, **Sabo-Attwood, T**, and Karmaus W. Association of Age, Race, and Body Mass Index with Sex Steroid Hormone Marker Profiles among Men, National Health and Nutrition Examination Survey (NHANES III). American Public Health Association Annual Meeting, Washington, DC, *Oct 31, 2011*.
- Richey J, Zhang H, Steck, S, **Sabo-Attwood, T**, and Karmaus W. A Comparison of Methods for Sex Steroid Hormone Adjustment, National Health and Nutrition Examination Survey (NHANES III). American Public Health Association Annual Meeting, Washington, DC, *Nov 1, 2011*.
- **Sabo-Attwood T**, Ferguson P, Kolok AS, Denslow ND, Bone A, Dominguez G, McGee, S, Kroll, K, Getzinger, G. Molecular Effects of Aqueous Contaminants on Fish Exposed to Wastewater Irrigated Golf Course Runoff in Coastal Stormwater Retention Ponds. 18th International Conference on Environmental Indicators, Hefei China, *September 10-18th, 2010*.
- Ferguson PL, **Sabo-Attwood, T**, Kolok AS, Denslow ND, Bone A, Dominguez G, McGee, S, Kroll, K, Getzinger, G. Effects and Occurrence of Estrogenic Contaminants in Coastal Stormwater Retention Ponds Impacted by Runoff from a waste-water Irrigated Golf Course. Society of Toxicology and Chemistry Annual Meeting, Portland Oregon, *November, 2010*.
- Sean McGee, Wilfried Karmaus, Hongmei Zhang and **Tara Sabo-Attwood**. Gender Specific Gene Expression Profiles in IPF and COPD. Organization for the Study of Sex Differences. Ann Arbor, MI, *June 3-5, 2010*.
- Sean McGee, Jessica Clark, Hongmei Zhang, Wilfried Karmaus and **Tara Sabo-Attwood**. Gender Differences in Estrogen Receptor Expression and Activation in the Lung by Xenoestrogens. Society of Toxicology, Salt Lake City, UT, *March 7-11, 2010*.
- **T Sabo-Attwood**, M Ramos-Nino, ME Ariza, J Clark, S McGee and BT Mossman. The role of osteopontin in asbestos-mediated inflammation. Society of Toxicology, Salt Lake City, UT, *March 7-11, 2010*.
- Leslyn Brusck-Richardson; Maria-Eugenia Ariza; Navid B. Saleh; **Tara Sabo-Attwood**. Development of a High Throughput Assay to Assess the Immunomodulatory Potential of Engineered Nanoparticles. Society of Toxicology, Salt Lake City, UT, *March 7-11, 2010*.
- Jessica Clark, Sean McGee, Lee Ferguson and **Tara Sabo-Attwood**. Differential Recruitment of Co-regulatory Proteins to the Estrogen Receptor by Xenoestrogens. Society of Toxicology, Salt Lake City, UT, *March 7-11, 2010*.

- **T. Sabo-Attwood**, M. E. Ariza, G.T. Chandler, P.L. Ferguson, S. Kashiwada, C.J. Murphy, L. Newman. Toxic Effects of Metal-Containing Nanoparticles – Potential for Health Impacts? International Conference on Biogeochemistry and Trace Elements, Mexico, 2009.
- **Tara Sabo-Attwood**, Shosaku Kashiwada, Maria-Eugenia Ariza, Sean McGee, P. Lee Ferguson, Yoshihiro Kagami and G. Thomas Chandler. Stage specific toxicity of silver nano-colloids during development in medaka. PRIMO, Bordeaux, France, 2009.
- P. Lee Ferguson, Lauren K. Shaw, and **Tara Sabo-Attwood**. Activity-directed analytical tools based on hormone receptor-affinity extraction for isolating dissolved EDCs from complex mixtures. PRIMO, Bordeaux, France, 2009.
- Ogbuanu Ikechukwu, Karmaus Wilfried, Zhang Hongmei, **Sabo-Attwood Tara**, Ewart Susan, Roberts Graham, Arshad Hasan Birth order modifies the effect of Interleukin-13 (IL13) gene polymorphisms on total serum IgE and skin prick test at ages 4, 10 and 18: A prospective birth cohort study. American Public Health Association, Philadelphia, PA, 2009.
- Walton KL, McLarty JL, Bennett S, Melendez GC, **Sabo-Attwood T** and Brower GL. Gender modulation of cardiac gene expression in rats with chronic volume overload. *The FASEB Journal* 23:362.6, 2009.
- Kashiwada, **Sabo-Attwood**, Ferguson, Chandler. Toxicity of Silver Nanoparticles to Japanese Medaka. International Conference on the Environmental Implications of Nanotechnology, UMASS Amherst, MA, 2009.
- **T Sabo-Attwood**, M Ramos-Nino, ME Ariza, M MacPherson, C Steele, KJ Butnor and BT Mossman. The role of osteopontin in asbestos-mediated lung injury. Society of Environmental Toxicology and Chemistry, Tampa, FL, 2008.
- S. Kashiwada, **T. Sabo-Attwood**, T. Kawaguchi, Eugenia Ariza, C.M. Aelion, H. Davis, PL Ferguson and G.T. Chandler. Aquatic Toxicology of Silver Nano-colloids in Medaka Fish Model. Society of Environmental Toxicology and Chemistry, Tampa, FL, 2008.
- S. Kashiwada, **T. Sabo-Attwood**, T. Kawaguchi, and G.T. Chandler. Toxicological survey of silver nano-colloids using medaka fish (*Oryzias latipes*) model. 5th World Conference of Society of Environmental Toxicology and Chemistry, Australia, 2008.
- R. Sean Norman, John W. Stone, Anand Gole, Catherine J. Murphy, and **Tara Sabo-Attwood**. Targeted Thermal Disruption of *Pseudomonas aeruginosa* Biofilms using Gold Nanorods. American Society of Microbiology, Australia, 2008.
- Karin Gaertner, S. Kashiwada, G.T. Chandler, **T. Sabo-Attwood**. Expression of the Ecdysone Receptor (EcR) for EDC screening with the harpacticoid copepod *Amphiascus tenuiremis*. Society of Environmental Toxicology and Chemistry, Tampa, FL, 2008.

- Lee A. Newman, **Tara Sabo-Attwood**, Francesca Palomba, Soumitra Ghoshroy, Catherine Murphy, John Stone and Jason Unrine. Plant uptake and translocation of gold nanoparticles. Phytoremediation, China, 2008.
- Gustavo Dominguez, Shosaku Kashiwada, Kevin J. Kroll, Nancy D. Denslow and **Tara Sabo-Attwood**. Temporal expression and transcriptional regulation of the vitellogenin receptor gene in largemouth bass (*Micropterus salmoides*). Society of Environmental Toxicology and Chemistry, Tampa, FL, 2008.
- David B. Murray, Judith M. Clary, **Tara Sabo-Attwood**, Jason D. Gardner. Estrogen Receptor Dependence of Female Cardioprotection. American Heart Association Research Symposium, Nov 2007.
- Stone, J.W.; Norman, R.S.; Gole, A.; Murphy, C.J.; **Sabo-Attwood, T.L.** Targeted Photothermal Lysis of the Pathogenic Bacteria, *Pseudomonas aeruginosa*, Using Gold Nanorods. Materials Research Symposium, Boston, MA, 2007.
- Unrine J, Newman L, Hunyadi A, Willis A, Bertsch P, **Sabo-Attwood T**, Murphy C, Willis A. Panning for Gold in Terrestrial Food Webs: Analytical Approaches for examining bioavailability of metal nanoparticles. SETAC, 2007.
- **Sabo-Attwood T**, Ariza EM, Beckman E, Ferguson PL, Ramos-Nino M. Molecular Mechanisms of SWCNT-induced Toxicity in Lung Epithelial Cells. SETAC, 2007.
- Maria E Ramos-Nino, Steve Blumen, **Tara Sabo-Attwood**, Joanna Gell and Brooke Mossman. Hepatocyte Growth Factor Mediates Growth through the Activation of ERK5 in Mesothelioma Cells. American Association of Cancer Research, Washington, D.C., 2006.
- **Tara Sabo-Attwood**, Maria E Ramos-Nino, Nicholas Heintz, Douglas Taatjes, and Brooke Mossman. Gene Profiling of Epithelial Cell Remodeling after Inhalation of Asbestos. American Physiological Society, Fort Lauderdale, FL, 2006.
- **Tara Sabo-Attwood**, Maria Ramos-Nino, Jannet Kocerha and Brooke T. Mossman. Transcriptional regulation of hclca1 and mucin production by lung epithelial cells in response to asbestos and smoke. Philip Morris External Research Symposium, Washington, D.C., 2006.

INVITED LECTURES

- Platform presentation, **Sabo-Attwood T**, Mechanisms of Xenoestrogens in Endocrine Disruption. AMCB retreat, Whitney Laboratory, ST. Augustine FL, March 30-31, 2012.
- Seminar speaker, **Sabo-Attwood T**, Modulation of the First Line of Immune Defense by Nanoparticles; A Possible Role in Disease Susceptibility. Environmental Engineering, University of Florida, *February 24, 2012*.
- Seminar speaker, **Sabo-Attwood T**, Differential estrogen receptor transcriptional complex formation in response to environmental estrogens. Physiological Sciences Seminar Series, University of Florida, *Jan 31, 2012*.
- Session speaker, **Sabo-Attwood T**, The Slippery Slope of Engineered Nanomaterials; Finding a Balance Between Advancing Technology and Potential Toxicity. Kavli symposium supported by the National Academy of Sciences, Longbeach, CA, *November 17-21 2011*.
- Platform presentation, Dominguez G, **Sabo-Attwood T**, Denslow ND, Kroll, K, and **Sabo-Attwood T**. Regulation of the transcriptional control of the largemouth bass vitellogenin receptor by androgens and waste water effluent mixtures. Society of Toxicology and Chemistry (SETAC), Boston, MA, *Nov 14 -17, 2011*.
- Platform presentation, Richey J, Zhang H, Steck, S, **Sabo-Attwood, T**, and Karmaus W. Association of Age, Race, and Body Mass Index with Sex Steroid Hormone Marker Profiles among Men, National Health and Nutrition Examination Survey (NHANES III). American Public Health Association Annual Meeting, Washington, DC, *Oct 31, 2011*.
- Platform presentation, Richey J, Zhang H, Steck, S, **Sabo-Attwood, T**, and Karmaus W. A Comparison of Methods for Sex Steroid Hormone Adjustment, National Health and Nutrition Examination Survey (NHANES III). American Public Health Association Annual Meeting, Washington, DC, *Nov 1, 2011*.
- Session speaker, **Sabo-Attwood T**, Indecent Exposure? Investigating the relationship between pathogens and environmental agents. NIEHS workshop to examine the Interactions between Environmental Exposures and Infectious Agents in the Etiology of Human Disease, Raleigh, NC, *September 11, 2011*.
- Platform presentation, **Sabo-Attwood T**, Ferguson P, Kolok AS, Denslow ND, Bone A, Dominguez G, McGee, S, Kroll, K, Getzinger, G. Molecular Profiles in fish exposed to waste water effluent and irrigation run-off from golf course ponds. Pollutant responses in Marine Organisms (PRIMO), Longbeach, CA, *May 15-19, 2011*.
- Session Speaker, **Sabo-Attwood T**, Using Chemical and Genomic Fingerprints to Assess Aquatic Organisms in Contaminated Environments, National veterinary Scholars

Symposium Meril-NIH Conservation Biology and State of the Art Medicine, Orlando, FL, *August 6, 2011.*

- Hongmei Zhang, Xianzheng Huang, Jianjun Gan, Wilfried Karmaus, and **Tara Sabo-Attwood**. Bayesian Adaptive Calibration and Variable Selection in Linear Models with Mismeasured Covariates, Eastern North American Region (ENAR), *March 20- 23, 2011.*
- Platform presentation, **Sabo-Attwood T**, Ferguson P, Kolok AS, Denslow ND, Bone A, Dominguez G, McGee, S, Kroll, K, Getzinger, G. Molecular Effects of Aqueous Contaminants on Fish Exposed to Wastewater Irrigated Golf Course Runoff in Coastal Stormwater Retention Ponds. 18th International Conference on Environmental Indicators, Hefei China, *September 10-18th, 2010.*
- Platform presentation, **Tara Sabo-Attwood**, Nanomaterials and the Environment, InnoVenture Nanotechnology Community, USC, *April 15, 2010.*
- Platform presentation, **Tara Sabo-Attwood**, Nanomaterials and the Environment, InnoVenture Southeast 2010. Greenville, SC, *May12-13, 2010.*
- Seminar, **Tara Sabo-Attwood**, Nanomaterials; emerging contaminants, potential toxicity. Columbia College, *April 5, 2010.*
- Seminar, **Tara Sabo-Attwood**, Deciphering Signaling Networks Triggered by Asbestos and Implications for Pulmonary Fibrosis. Duke University, *February 26, 2010.*
- **Keynote Lecture, Tara Sabo-Attwood**, Environmental and Toxic Effects of Nanoparticles, International Conference of Biogeochemistry and Trace Elements, Chihuahua, Mexico, *July 13-17 2009.*
- Platform presentation, **Tara Sabo-Attwood**, Shosaku Kashiwada, Maria-Eugenia Ariza, Sean McGee, P. Lee Ferguson, Yoshihiro Kagami and G. Thomas Chandler Stage specific toxicity of silver nano-colloids during development in medaka. International Conference on Pollutant Responses in Marine Organisms, Bordeaux, France, *2009.*
- Platform presentation, P. Lee Ferguson, Lauren K. Shaw, and **Tara Sabo-Attwood**. Activity-directed analytical tools based on hormone receptor-affinity extraction for isolating dissolved EDCs from complex mixtures. International Conference on Pollutant Responses in Marine Organisms, Bordeaux, France, *2009.*
- Seminar, **Tara Sabo-Attwood**, Lee Ferguson, Jessica Clark, Mechanisms of Xenoestrogen Stress: A Proteomic and Functional Genomic Approach, Clemson University, *September 14, 2009.*
- Seminar, **Tara Sabo-Attwood**, Sean Norman, Cathy Murphy, Lee Newman, Targeted Disruption of *Pseudomonas aeruginosa* Biofilms using Gold Nanorods, Brookhaven National Lab, Upton, NY, *April 2009.*

- Seminar, **Tara Sabo-Attwood**, Toxicity of Nanomaterials, USC Carolina Master Scholar Program for “Bionanotechnology”, *June 11, 2009*.
- Seminar, **Tara Sabo-Attwood**, Eugenia Ariza, Leslyn Bruschi-Richardson, Nanomaterials: Emerging contaminants, potential toxicity, USC Department of Engineering, *November 4, 2009*.
- Platform presentation, S. Kashiwada, **T. Sabo-Attwood**, T. Kawaguchi, Eugenia Ariza, C.M. Aelion, H. Davis, PL Ferguson and G.T. Chandler. Aquatic Toxicology of Silver Nano-colloids in Medaka Fish Model. Society of Environmental Toxicology and Chemistry, Tampa, FL, *2008*.
- Platform presentation, Hyland, K.C.; **T. Sabo-Attwood**; and P.L. Ferguson. Characterization of the Biodegradation Products of Aircraft Anti- Icing Fluids and their Estrogenic Effects on Male Zebrafish (*Danio rerio*). 29th Annual Meeting of the Society of Environmental Toxicology and Chemistry, Tampa, FL, *2008*.
- Platform presentation, Clark, J.C.; **T. Sabo-Attwood**; and P.L. Ferguson. Xenoestrogen-dependence of human estrogen receptor interaction with coregulator proteins and the estrogen response element. 29th Annual Meeting of the Society of Environmental Toxicology and Chemistry, Tampa, FL, *2008*.
- **Tara Sabo-Attwood**, Nanotoxicology - small particles with unique toxicity from aquatic to human model systems. NCSU Workshop on Communicating Health and Safety Risks on Emerging Technologies in the 21st Century, McKimmon Center, North Carolina State University, Raleigh, NC, *2008*.
- Seminar speaker, **Tara Sabo-Attwood**, Environmental Toxicogenomics; Endocrine Disruption in Largemouth Bass Exposed to Xenoestrogens, Columbia Womens College, Columbia, SC, *2008*.
- Seminar speaker, **Tara Sabo-Attwood**, Lee Newman, Plant Nanoparticle Interactions. USC Department of Biology seminar series, *2008*.
- Seminar speaker, **Tara Sabo-Attwood**, Public Forum on Nanotechnology, Rhetoric of Science and Technology, USC, Columbia, SC, *2008*.
- Seminar speaker, **Tara Sabo-Attwood**, USC Aiken Dept of Biology and Geology, Distinct Expression and Activity Profiles of Bass Genes in Response to Xenoestrogens, *2007*.
- Seminar speaker, **Tara Sabo-Attwood**, Science Café, EngenuitySC, Impacts of ‘old’ and ‘emerging’ airborne pollutants on human health: asbestos fibers and nanomaterials, *2007*.
- Platform presentation, **Tara Sabo-Attwood**, Maria E Ramos-Nino, Nicholas Heintz,

Douglas Taatjes, and Brooke Mossman. Gene Profiling of Epithelial Cell Remodeling after Inhalation of Asbestos. American Physiological Society, Fort Lauderdale, FL, 2006.

- Platform presentation, **Tara Sabo-Attwood**, Maria Ramos-Nino, Jannet Kocerha and Brooke T. Mossman. Transcriptional regulation of *hclca1* and mucin production by lung epithelial cells in response to asbestos and smoke. Philip Morris External Research Symposium, Washington, D.C., 2006.
- Seminar speaker, **Tara Sabo-Attwood**, USC Department of Chemistry and Biochemistry Seminar Series, Complex Regulation of Mucins in a Model of Asbestos-Induced Pulmonary Injury, 2006.
- Seminar speaker, **Tara Sabo-Attwood**, USC Medical School Department of Immunology and Cell Biology, Inhalation Models of Airborne Particle-Induced Lung Injury, 2006.
- Seminar speaker, **Tara Sabo-Attwood**, USC Department of Exercise Science Seminar Series, Epithelial cell-specific gene profiling in a model of asbestos-induced pulmonary injury, 2006.
- Seminar speaker, **Tara Sabo-Attwood**, Savannah River Ecology Laboratory Seminar Series, Distinct Expression and Activity Profiles of Bass Genes in Response to Xenoestrogens, 2006.

SERVICE ACTIVITIES

- Editorial Board, *Frontiers in Genetics; Toxocogenomics*, 2011-present.
- Public Health Marshall, University of Florida, 2011-present.
- Public Health Executive Committee, 2011-present.
- Graduate Coordinator, Department of Environmental and Global Health, 201-2012.
- Chair, faculty search committee for Department of Environmental and Global Health, 2011.
- Faculty search committee member, physiological sciences, 2011.
- Co-Chair, Linking properties of nanomaterials with effects, Society of Toxicology and Chemistry, Portland Oregon, November 2010.
- Co-Chair, International Conference on Nanoscience and Nanotechnology in the Environment, Clemson University, August 2010.

- Session Chair, International Conference on Nanoscience and Nanotechnology in the Environment, Clemson University, *August 2010*.
- Session Chair, Society of Environmental Toxicology and Chemistry, Portland OR, *2010*.
- External Advisory Board Member, Center for the Environmental Implications of Nanotechnology, Duke University, *2010, 2011*.
- Team leader Nano-Environmental Focus Group, USC NanoCenter, *2007-2010*.
- Student Judicial Committee, University of South Carolina, *2009*.
- Graduate Admissions Committee, University of South Carolina, *2008-2010*.
- Faculty Senate Representative, University of South Carolina, *2007-2009*.
- ASPH Research Advisory Committee (RAC), University of South Carolina, *2007-2009*.
- ASPH Student Awards Committee, University of South Carolina, *2009*.
- Judge for USC Science and Engineering Fair, Columbia, SC, *2009*.
- Panel for Public Forum on Nanotechnology, University of South Carolina, *2008*.
- Environmental Genomics Core Facility Technical Advisory Committee, University of South Carolina *2007*.
- ASPH Graduate Student Orientation Program Session Co-chair, University of South Carolina *2006-2007*.

PANEL REVIEWER:

International Sciences and Technology Center (ISTC/U.S. Civilian Research and Development Foundation, Ad hoc review, *2006*
 NSF CBET CAREER Review Panel, *2009*
 NSF CBET Nanotechnology Review panel, *2011*
 NSF CBET Nanotechnology Ad hoc review, *2011*
 EPA STAR Review Panel, *2012*
 Research Programme Aristeia, Ad hoc review, *2012*

JOURNAL REVIEWER:

Journal of the American Chemical Society (JACS)
 Toxicological Sciences

Nanotoxicology
Analytical and Bioanalytical Chemistry
Comparative Biochemistry and Physiology
Environmental Science and Technology
John Wiley & Sons
Aquatic Toxicology
General and Comparative Endocrinology
Environmental Toxicology and Chemistry
Environmental Health Perspectives
Ecotoxicology and Environmental Safety
Journal of Molecular Endocrinology
Frontiers Toxicogenomics