

TARA SABO-ATTWOOD, PH.D.

University of Florida, Department of Environmental & Global Health, 101 S. Newell Dr, Suite 2133, Gainesville, FL 32610 Tel: 352-294-5293, sabo@phhp.ufl.edu

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 Chair, *September 2012 present* University of Florida, Department of Environmental and Global Heath
- Director of Doctoral Programs, *September 2012 present* University of Florida, Department of Environmental and Global Heath
- Coordinator MPH Programs, *January 2011 November 2013* University of Florida, Department of Environmental and Global Heath
- Associate Professor, January 2011 present
 University of Florida, Department of Environmental and Global Heath & 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.
- NIEHS Superfund 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

- Inducted into Delta Omega Public Health Honor Society, chapter Beta Upsilon, 2013
- Graduate of University of Florida Science Communications Academy, 2013
- 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
- NIEHS superfund graduate research fellow, University of Florida, 1998-2003

PROFESSIONAL SOCIETIES

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

PUBLICATIONS

In Preparation

- Sanpui, P, Loeb, J, Lednicky, J, Saleh, NB, Ferguson, PL and Sabo-Attwood, T. (2013). Pristine SWNT increase infectivity of lung epithelial cells with influenza virus H1N1.
- Zhang, X., Sanpui, X, Saleh, NB, Ferguson, PL, Lednicky, J and Sabo-Attwood, T. (2013). Modulation of Toll-like receptor activity by Pristine SWNT.
- 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*).
- Sabo-Attwood, T., Ariza, M.E., Clark, J.C., McGee, S., Sisco, D., Chhabria, K., Ramos-Nino, M. Gene Profiles Reveal Reduction of Inhibitor of DNA Binding 3 (ID3) by SWNT and Asbestos in Lung Epithelial Cells. (*In preparation for Nanotoxicology*)
- McGee, S., Zhang, H., Karmaus, W., and Sabo-Attwood T. The influence of gender on gene expression profiles in individuals with idiopathic pulmonary fibrosis. (*In preparation for Biology of Sex Differences*).
- Sabo-Attwood, T., Ferrieri R., and Newman, L. Gold nanoparticles alter carbon fixation and stress-related genes in exposed tomato plants. (*In preparation for Nanotoxicology*).
- Smith C., Ralston, K., Ferguson, P.L. and Sabo-Attwood, T. Differential global phosphorylation of proteins by the GPER agonists, G-1 and E2 in breast cancer cells. (*In preparation for PLoS One*)
- Hyland, K.C., Sabo-Attwood, T., and Ferguson, P.L. Characterization of the biodegradation products of aircraft anti- icing fluids and their estrogenic effects. (*In preparation for Environmental Pollution*).

Submitted/In Review

- Sean P. McGee, Hongmei Zhang, Wilfried Karmaus and Tara Sabo-Attwood. (2013). The Influence of Sex and Disease Severity on Gene Expression Profiles in Individuals with Idiopathic Pulmonary Fibrosis. (*Submitted, Biology of Sex Differences*).
- Bisesi, Joseph; Merten, Johnathan; Liu, Keira; Parks, Ashley; Afrooz, Nabiul; Glenn, J.; Klaine, Stephen; Kane, Andrew; Saleh, Navid; Ferguson, Lee; Sabo-Attwood, Tara.
 (2013). Tracking and Quantification of Single-Walled Carbon Nanotubes in Fish Using Near Infrared Fluorescence (In review, Environmental Science and Technology).
- Iftheker A Khan, PhD; Joseph R V Flora, PhD; A. R. M. Nabiul Afrooz, PhD Candidate; Nirupam Aich, PhD Candidate; P. Ariette Schierz, PhD; P. Lee Ferguson, PhD; Tara Sabo-Attwood, PhD. (2013). Aggregation Kinetics of Single-Walled Carbon Nanotubes with Specific Chirality: Role of Selected Anionic Surfactants. (*In review, Chemosphere*).

In Press/Print

- Jamie Ritchey, PhD, MPH; Jamie Ritchey, PhD, MPH; Hongmei Zhang, PhD; Wilfried Karmaus, MD, Dr.med, MPH; Susan E Steck, Phd, MPH, RD; Tara Sabo-Attwood, PhD (2013). Linearity assessment methods for sex steroid hormones and carrier proteins among men in the National Health and Nutrition Examination Survey (NHANES III). (*In Press, Steroids*).
- Jamie Ritchey, Hongmei Zhang, Wilfried Karmaus, Susan E Steck, Tara Sabo-Attwood. (2013). A Review of the Expression of Genes Involved in Sex Steroid Hormone Metabolism in Prostate Tissue: A Need for Epigenetic Information. (*In Press, Journal of Analytical Oncology*).
- Khan IA, Aich N, Afrooz AR, Flora JR, Schierz PA, Ferguson PL, Sabo-Attwood T, Saleh NB. (2013). Fractal structures of single-walled carbon nanotubes in biologically relevant conditions: Role of chirality vs. media conditions. Chemosphere. Nov;93(9):1997-2003. PMID 23920360.
- Khan, Iftheker; Berge, Nicole; Sabo-Attwood, Tara; Ferguson, Lee; Saleh, Navid. (2013). Single-walled carbon nanotube transport in representative municipal solid waste landfill conditions. Environ Sci Technol. 2013 Aug 6;47(15):8425-33.
- Khan IA, Afrooz AR, Flora JR, Schierz PA, Ferguson PL, Sabo-Attwood T, Saleh NB. (2013). Chirality affects aggregation kinetics of single-walled carbon nanotubes. Environ Sci Technol. Feb 19;47(4):1844-52. PMID:23343128.
- Khan IA, Afrooz AR, Flora JR, Schierz PA, Ferguson PL, Sabo-Attwood T, Saleh NB. (2013). Chirality affects aggregation kinetics of single-walled carbon nanotubes. Environ Sci Technol. Feb 19;47(4):1844-52.

- Richey, J., Karmaus, W., Zhang, H., Sabo-Attwood, T., and Steck, S. (2012). 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) BMJ Open. Oct 6;2(5).
- Dominguez GA, Quattro JM, Denslow ND, Kroll KJ, Prucha MS, Porak WF, Grier HJ, Sabo-Attwood TL. (2012). Identification and Temporal Expression of the Vitellogenin Receptor in Largemouth Bass. Biol Reprod. Sep 21;87(3):67.
- Kashiwada, S., Ariza, M.E., Kawaguchi, T., Nakagame, Y., Jayasinghe, S.B., Gärtner, K., Nakamura, H., Kagami, Y., Sabo-Attwood, T., Ferguson, P.L. and Chandler, G.T. (2012). Silver nano-colloids disrupt medaka embryogenesis through vital gene expressions. Environ Sci Technol. 2012 Jun 5;46(11):6278-87.
- McLarty, J.L., Melendez, G.C., Levick, S.P., Bennett, S., Sabo-Atwood, T., Brower, G.L. and Janicki, J.S. (2012). Estrogen modulates of inflammation-related genes in male rats following chronic volume overload. Physiol Genomics. Mar 19;44(6):362-73.
- Handy, R.D., Cornelis, G., Fernandes, T., Tsyusko, O., Decho, A., Metcalfe, C., Sabo-Attwood, T. and Stevens, J (2012). Ecotoxicity test methods for engineered nanomaterials: Practical experiences and recommendations from the bench. Environ Toxicol Chem. Jan;31(1):15-31.
- Gaertner, K., Quattro, J., Ferguson, P.L., Chandler, G.T. and Sabo-Attwood, T. (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.
- Sabo-Attwood, T., Murphy, C.J., Unrine, J. and Newman, L. (2011). Uptake, distribution and toxicity of gold nanoparticles in tobacco (*Nicotiana xanthi*) seedlings. Nanotoxicology. May 16.
- Sabo-Attwood, T., Ramos-Nino, M., Ariza, M.E., MacPherson, M., Steele, C., Butnor, K. and Mossman, B.T. (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.
- Brass, D., Dunkel, M., Reilly, S., Tobolewski, J., Sabo-Attwood, T., McGee S. 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, I., Karmaus, W., Zhang, H., Sabo-Attwood, T., Ewart, S., Roberts, G. and Arshad, H. (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, M.T., Potts, J.D., Jabbari, E., Sabo-Attwood, T. and Wang, Q (2009). Regulation of osteogenic differentiation of rat bone marrow stromal cells on 2D nanorod substrates. Biomaterials. Mar;31(7):1732-41.
- Kashiwada, S., Tatsuta, H., Ishikawa, H., Mayamoto, N., Itoh, M., Sabo-Attwood, T.L., Ferguson, P.L., Chandler, G.T. and Magara, Y. (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., Butno,r K., Gagne, J., Steele, C., Taatjes, D., Huber, S. and Mossman, B.T. (2008). Inhaled Asbestos Exacerbates Atherosclerosis in apolipoprotein E-deficient Micevia CD4+ T Cells. Environmental Health Perspectives Sep;116(9):1218-25.
- Kashiwada, S., Tatsuta, H., Kameshiro, M., Sugaya, Y., Sabo-Attwood, T., Chandler, G.T., Ferguson, P.L. and 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.
- Manning, C.B., Sabo-Attwood, T. (shared first authorship), Robledo, R.F., MacPherson, M.B., Rincon, M., Vacek, P., Hemenway, D., Taatjes, D.J., Lee, P.J. and Mossman, B.T. (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.
- Norman, R.S., Stone, J., Gole, A., Murphy, C.J. and Sabo-Attwood, T. (2007) Targeted Photothermal Lysis of the Pathogenic Bacteria, *Pseudomonas aeruginosa*, Using Gold Nanorods. (2008) Jan;8(1):302-6.
- Ramos-Nino, M., Blumen, S.R., Sabo-Attwood, T., Gell, J., Pass, H., Bocchetta, M., Altomare, D., Kroczynska, B., Carbone, M., Testa, J., Heintz, N. and Mossman, B.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, J.U., Aliferis, C., Caprioli, R.M., Cowley, Jr A.W., Davies, P.F., Duncan, M.W., Erle, D.J., Erzurum, S.C., Finn, P.W., Ischiropoulos, H., Kaminski, N., Kleeberger, S.R., Leikauf, G.D., Loyd, J.E., Martin, T.R., Matalon, S., Moore, J.H., Quackenbush, J., Sabo-Attwood, T., Shapiro, S.D., Schnitzer, J.E., Schwartz, D.A., Schwiebert, L.M., Sheppard, D., Ware, L.B., Weiss, S.T., Whitsett, J.A., Wurfel, M.M. and Matthay, M.A. (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, M.E., Vianale, G., Sabo-Atwood, 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, M.E, 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, K.J., and Denslow, N.D. (2004) Differential Expression of Largemouth Bass Estrogen Receptor Isotypes Alpha, Beta, and Gamma By Estradiol. Molecular and Cellular Endocrinology 218, 107-118.
- Larkin, P., Sabo-Attwood, T., Kelso, J., and Denslow, N.D. (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.D. (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:

- NIH-D43, One Health Fellowships For Zoonotic Disease Research In Mongolia. Gray (PI), **Sabo-Attwood** (Co-I). 304,713.000. 2013-2014.
- NIH FIC 1R24TW0095461, One Health Center For Environmental And Occupational Research. Gray (PI), Aleandru Coman (PI), **Sabo-Attwood (Co-I).** \$100,000. 2012-2014.
- NIH/NHLBI R01, Defining the role of toll-like receptors in the toxicity of nanoparticles and pathogens. Sabo-Attwood T (PI), Lednicki J (Co-I), Ferguson PL (Co-I), Salleh N (Co-I). 1.5M, 2012 2017.
- NSF/CBET, Impact of Single-Walled Carbon nanotubes on Reproductive Parameters in Fish. **Sabo-Attwood T (PI)**, Denslow (Co-PI). \$300,000, 2012-2015.

- UF Opportunity Fund, Pulmonary toxicity of Pathogens and Nanomaterials. **Sabo-Attwood T** (**PI**), Lednicky J (Co-PI), Powers K (Co-PI). \$87,889, 2012-2014.
- NSF/CBET, Influence of diameter and chirality of single-walled carbon nanotubes on their fate and effects in the aquatic environment. Saleh N (PI), **Sabo-Attwood T** (**Co-PI**), Ferguson PL (Co-PI). \$399,319, 2009-2012.

COMPLETED:

- NIH/NIEHS, Mechanisms of Xenoestrogen Stress: A Proteomic and Functional Genomic Approach. **Sabo-Attwood T (PI)**, Ferguson (PI). \$378,000, 2009-2012.
- NSF/CBET, Plant Uptake and Interaction with Nanoparticles. Newman L (PI), **Sabo-Attwood T (Co-PI)**. \$278,000, 2008-2012.
- NOAA Coastal Services Center, Using gene expression profiles of estuarine grass shrimp (*Palaemonetes pugio*) as biosensors/monitors of coastal ecosystem health. Quattro J (PI), **Sabo-Attwood T (Co-PI).** \$366,000, 2009-2012.
- USC Medical School, The Interdisciplinary Conference on Pregnancy and the Health of Women and Children. Karmaus W (PI), **Sabo-Attwood T** (**Co-PI**), Zhang H (Co-PI). \$2,000, 2009.
- NSF/NIRT, Intuitive toxicology and Public Engagement. Berube D (PI), **Sabo-Attwood T** (**Consultant**). \$1,399,258, 2008-2010.
- NIH/NHLBI, The influence of gender on molecular signatures of fibrotic lung disease. **Sabo-Attwood T (PI)**, Zhang H (PI), Karmaus W (Co-PI). \$150,000, 2008-2010.
- NIH/NIEHS, Mechanisms of Asbestos-Induced Clca1 and Mucin in Lung Epithelium. **Sabo-Attwood T (PI)**, \$320,000, 2006-2010.
- SC EPSCoR/IDEA, Stress, endocrine disruption, and adverse pregnancy outcomes. Karmaus W (PI), **Sabo-Attwood T (Co-PI)**, Zhang H (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 T (PI). \$10,000, 2007-2008.
- USC Honors College SURF Award. Sabo-Attwood T (PI). \$3,000, 2008-2009.
- USC NanoCenter, Nanomaterials in the Environment. **Sabo-Attwood T (PI)**. \$170,000, 2009.

- USC Research Foundation, Proposal for a Research Faculty Position in Environmental Toxicogenomics, Centenary Plan. **Sabo-Attwood T (PI)**, Chandler GT (Co-PI). \$143,125, 2007-2010.
- USC Honors College SURF Award. Sabo-Attwood T (PI). \$3,000, 2010-2011.

MENTORING

CURRENT:

Cruz Ortiz, PhD student
Justine Nicholas, PhD student
Sumith Jayasingthe, PhD, postdoctoral associate
Joe Bisesi PhD, postdoctoral associate.
Ley Cody Smith, PhD student
Jenn Knapp, unndergraduate
Camille Estupijan, undergraduate student
Justine Nicholas, MS student
Blake Castillo, undergraduate
Cruz Ortiz, PhD student

PAST:

Pallab Sanpui PhD, postdoctoral associate.
Mary Leigh Morris, MPH student
Karishma Chhabria, graduate student volunteer
Ley Cody Smith, MS, 2011-2013
Kunj Shroff, undergraduate researcher
Gustavo Dominguez, PhD, 2009 - 2012
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:

- UF Outstanding International Student Award, Bela Zheng, 2013.
- Best Poster Award Finalist, NanoFlorida, Joseph Bisesi, 2013.
- Graduate Student Fellowship, UF College of Veterinary Medicine, Cody Smith, 2012.
- 1st place Society of Toxicology Graduate Student Award, Molecular Biology Specialty Section, Ley Cody Smith, *2013*.
- 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 COMMITTES:

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:

Average student instructor evaluation scores, highest obtainable value 5.0

- PHC 6313, Environmental Concepts in Public Health, University of Florida, 2011, 2012 Student evaluations for Fall 2011 (online) 4.38; Spring 2012 (in class); 4.1; Fall 2012 (in class); Spring 2013 (online), Fall 2013.
- 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:

- PHHP honors, February 2013
- 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

- Bisesi, JH, Ponnavolu, S, Liu, K, Afrooz, N, Saleh, N, Ferguson, PL and Sabo-Attwood. Effects of single walled carbon nanotubes on the expression of genes responsible for digestive enzyme release, lipid hydrolysis, and peptide transport during fish feeding studies. Society of Toxicology and Chemistry (SETAC), Nashville, TN, November 16-21, 2013.
- B. Sumith Jayasinghe, Kevin J. Kroll, Nancy Denslow, and Tara Sabo-Attwood. Exposure to G-1, a selective agonist for GPER, results in changes in gene expression in adult fathead minnow liver and brain tissues. Society of Toxicology and Chemistry (SETAC), Nashville, TN, November 16-21, 2013.
- L. Cody Smith, Candice Lavelle, Cecilia Silva-Sanchez, Nancy Denslow, Tara Sabo-Attwood. Advancing the Systems Biology Approach in Ecotoxicology Studies with Non-Gel Based Phosphoproteomics, Society of Toxicology and Chemistry (SETAC), Nashville, TN, November 16-21, 2013.
- Lee Ferguson, Tara Sabo-Attwood, Alan Kolok, Kimberly Ralston-Hooper, Gordon Getzinger, Alvina Mehinto, Nancy Denslow, Gustavo Dominguez, Katherine Stencel, Sean McGee, Audrey Bone. Assessing effects of organic micropollutant mixtures in coastal stormwater retention ponds impacted by runoff from a wastewater-irrigated golf course. Society of Toxicology and Chemistry (SETAC), Nashville, TN, November 16-21, 2013.
- Bisesi, JH, Ponnavolu, S, Liu, K, Afrooz, N, Saleh, N, Ferguson, PL and Sabo-Attwood,
 T. Do single walled carbon nanotubes decrease nutrient uptake during fish feeding studies? Nano Florida, Gainesville, FL, September 29-30, 2013.

- P. Sanpui, J. Loeb, J. Lednicky, N. Saleh, and T.Sabo-Attwood. Single-Walled Carbon Nanotubes Increase Influenza Virus Infectivity in Lung Cells. Society of Toxicology Conference, San Antonio, TX, March 10-14, 2013.
- L. C. Smith, K. Ralston-Hooper, P. Ferguson, and T. Sabo-Attwood. Effects of GPER Activation on (Xeno) Estrogen-Induced Cellular Responses. Society of Toxicology Conference, San Antonio, TX, March 10-14, 2013.
- S. Jayasinghe, K. Kroll, N. Denslow, and T. Sabo-Attwood. Exposure to G-1, a Selective Agonist for G Protein-Coupled Estrogen Receptor 1 (GPER), Results in Elevated Levels of Vitelloginin in Adult Fathead Minnows (Pimephales promelas). Society of Toxicology Conference, San Antonio, TX, March 10-14, 2013.
- T. Sabo-Attwood, G. Dominguez, J. Bisesi, K.J. Kroll, N.D. Denslow. Transcriptional Repression Of The Vitellogenin Receptor By Xenoestrogens Via Select Estrogen Receptor Subtypes In Largemouth Bass. Pollutant Responses in Marine Organisms Conference, Faro, Portugal, May 5-8, 2013.
- N. D. Denslow, C. J. Martyniuk, C. Colli-Dula, M. Prucha, K. Kroll, G. Dominguez, T. Sabo-Attwood. Exposure To Contaminants Alters The Normal Seasonal Change In Gene Expression Observed During Reproduction In Largemouth Bass. Pollutant Responses in Marine Organisms Conference, Faro, Portugal, May 5-8, 2013.
- Xiao Zheng, Pallab Sanpui, John Lednicky, Julia Loeb, Tara Sabo-Attwood. Modulation of Influenza Virus Infectivity and Activation of Toll-like Receptors by Carbon Nanomaterials. EPI research day, February 14, 2013.
- Sabo-Attwood, T, Dominguez, G, Denslow ND. Modulation of the vitellogenin receptor by xenoestrogens in largemouth bass. 7th International Symposium on Fish Endocrinology, Buenes Aires, Argentina, Sept 3-6, 2012.
- Dominguez, G, Denslow ND and Sabo-Attwood, T. The influence of Insulin-like Growth factor Pathways on the Expression of the Largemouth Bass Vitellogenin Receptor. 7th International Symposium on Fish Endocrinology, Buenes Aires, Argentina, Sept 3-6, 2012.
- T. Sabo-Attwood, J.H. Bisesi, N.B. Saleh, A.R.M Afrooz, A.N. Parks, P.L. Ferguson, J. Merten. Dynamics of SWNT Distribution and Aggregate Structure During Aquatic Exposures. *First Sustainable Nanotechnology Conference. Arlington, VA, November 4-6, 2012.*
- Bisesi JH, Merten, J, Parks, AN, Ferguson, PL, Afrooz, ARM, Saleh, NB, Sabo-Attwood, T. Examining single walled carbon nanotube distribution in live fish during gavage and feeding studies using near infrared florescence detection. Society of Environmental Toxicology and Chemistry, Longbeach, CA, Nov 11-15, 2012.

- Bisesi JH, Merten, J, Parks, AN, Ferguson, PL, Sabo-Attwood, T. Imaging real time single walled nanotube distribution in fish using near infra-red fluorescence detection. 7th International Conference on the Environmental Effects of Nanoparticles and Nanomaterials. Banff, Alberta, Canada, Sept 10-12, 2012
- Sabo-Attwood, T, Sanpui, P, Lednicky, J, Loeb, J. 7th International Conference on the Environmental Effects of Nanoparticles and Nanomaterials. Banff, Alberta, Canada, Sept 10-12. 2012.
- Keith W. Jones, Ryan Tappero, Jun Wang, Yu-chen Chen, Qingxi Yuan, W. Brent Lindquist, Lauren Crandell, Catherine A. Peters, Wooyong Um, Lee A. Newman, T Sabo-Attwood and Cecily Moyer. Tomographic Investigations of the Rhizosphere. The American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America International Annual Meeting, "Visions for a Sustainable Planet," Cincinnati, OH., Oct. 21-24, 2012.
- 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.
- Lee A. Newman, Tara Sabo-Attwood, Francesca Palomba, Soumitra Ghoshroy, Catherine Murphy, John Stone, Jason Unrine, Richard Ferrieri, Benjamin Babst and Ryan Tappero. Plant Uptake and Translocation of Gold Nanoparticles. Gordon Conference, Environmental Nanotechnology, Life Cycle Perspectives of Nanostructured Materials: Synthesis, Characterization & Risk Assessment for Public Health, Waterville Valley, NH, May 29 - June 3, 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 Brusch-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

- Invited speaker, Sabo-Attwood, Close Encounters of an Infectious Kind: The influence of Nanoparticles on Pathogens for the symposium Rapidly Emerging Nanomaterials: Insuring Human and Environmental Health, Duke University, October 31, 2013.
- Seminar speaker, Sabo-Attwood, Investigating the Toxicity of Carbon Nanomaterials on Aquatic and Mammalian Systems. University of South Florida, October 4, 2013.
- Seminar speaker, Sabo-Attwood, Use of Molecular Bioassays in Aquatic Field Studies. Florida Fish and Wildlife Conservation Commission, June 28, 2013.
- Platform presentation, Sabo-Attwood, T, Dominguez, G, Denslow ND. Modulation of the vitellogenin receptor by xenoestrogens in largemouth bass. 7th International Symposium on Fish Endocrinology, Endocrine Disruption session, Buenes Aires, Argentina, Sept 3-6, 2012.
- Guest speaker, 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 Merial-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 Brusch-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

- Organizing committee, International Conference on Nanoscience and Nanotechnology in the Environment, USC, 2014.
- Organizing committee, NSF grantees meeting, Washington DC, Dec 4-5, 2013.
- Session Chair, NSF grantees meeting, Washington DC, Dec 4-5, 2013.

- Judge, MPH Research Presentation Day, University of Florida, 2011, 2012, 2013.
- Editorial Board, Frontiers in Genetics; Toxocogenomics, 2011-present.
- Public Health Marshall, University of Florida, 2011-present.
- Public Health and Health Professions Executive Committee, 2011-present.
- Graduate Coordinator, Department of Environmental and Global Health, 2011-2012.
- 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, 2013

NSF CBET Nanotechnology Ad hoc review, 2011, 2013

EPA STAR Review Panel, 2012

Research Programme Aristeia, Ad hoc review, 2012

Clemson University Experiment Station Program, 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

Molecular Oncology

ACSNano