



## **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**

---

- Chair, *September 2015 - present*  
University of Florida, Department of Environmental and Global Health
- Interim Chair, *May 2014 – September 2015*  
University of Florida, Department of Environmental and Global Health
- Associate Chair, *September 2012 – April 2014*  
University of Florida, Department of Environmental and Global Health
- Director of Doctoral Programs, *September 2012 – December 2014*  
University of Florida, Department of Environmental and Global Health
- Coordinator MPH Programs, *January 2011 – November 2013*  
University of Florida, Department of Environmental and Global Health
- Associate Professor, *January 2011 - 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.
- 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**

---

- Appointed to the EPA Chartered Science Advisory Board, *2015 -2018*
- Elected Councilor, Society of Toxicology Specially Section on Nanotoxicology, *2015*
- Nominated as one of the ‘Next Generation of Immunotoxicologists’ at the JSOT meeting in Kobe, Japan (Talk given by Mitchell Cohen), *2014*.
- 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 in 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**

---

- Smith, C., Lavelle, C., Denslow, ND, Sabo-Attwood, T. (2016). Activation of the Phosphoproteome in Fish by Hormones: New Considerations for Adverse Outcome Pathways. *PNAS (In prep)*.
- S.T. Humes, C.M. Lavelle, S. Hentschel, L.C. Smith, J.A. Lednicky, and T. Sabo-Attwood (2016). Overcoming interference by carbon nanotubes in qRT-PCR assessments of gene expression. *Biotechniques (IN re-review Biotechniques)*.
- Nirupam Aich, Arvid Masud, Tara Sabo-Attwood, Jaime Plazas-Tuttle, and Navid B. Saleh. Dimensional Variations in Nanohybrids: Property Alterations, Applications, and Considerations for Toxicological Implications (*In Press*).
- Natàlia Garcia-Reyero, Sumith Jayasinghe, Kevin J Kroll, Tara Sabo-Attwood, Nancy D Denslow (2016). Estrogen Signaling through both Membrane and Nuclear Receptors in Liver in Fathead Minnow (*In Press*).
- Tara Sabo-Attwood, Dipesh Das, Jaime Plazas-Tuttle, and Navid Saleh (2016). Carbon nanotubes: Sublethal and unique mechanisms of toxicity in aquatic vertebrates. Book Chapter in Toxicology of Ambient Ultrafine Particulate Matter, Nanoparticles and Nanomaterials in Terrestrial and Aquatic Environments, Wiley SETAC (*In Press*).

- Stephen M. Roberts, Annette C. Rohr, Vladimir Mikheev, John Munson, and Tara Sabo-Attwood (2016). Influence of Airborne Particulates on Respiratory Tract Distribution of Inhaled Toluene and Naphthalene in the Rat (*In review*).
- Muhammad Sohail, Syed Ali Musstjab Akber Shah Eqani, Joel Podgorski, Avit Kumar Bhowmik, Adeel Mahmood, Nadeem Ali, Habib Bokhari, Tara Sabo-Attwood, Heqing Shen (2016) POPs emission via dust fallout throughout Pakistan: Fingerprinting of recent inputs, regional cycling and their implication for human health risks (*In Press*).
- Zechen Yu, Myoseon Jang, Huanhuan Jiang, Tara Sabo-Attwood, and Sarah E. Robinson (2016). Dose Model of Organic Aerosol onto Air-Liquid Interface Cells *in Vitro* Using Electrostatic Precipitator (*In Press*).
- Joseph Bisesi, Sarah Robinson, Candice Lavelle, Thuy Ngo, Blake Castillo, Hayleigh Crosby, Lee Ferguson, Navid Saleh, Nancy Denslow, Tara Sabo-Attwood. [Influence of the gastrointestinal environment](#) on the bioavailability of ethinyl estradiol sorbed to single-walled carbon nanotubes. *Environ Sci Technol.* 2017 Jan 5
- Dipesh Das, Jaime Plazas-Tuttle, Indu Venu Sabaraya, Sneha S. Jain, Tara Sabo-Attwood, Navid B. Saleh (2016). An Elegant Method for Large Scale Synthesis of Metal Oxide-Carbon Nanotube Nanohybrids for Nano-environmental Application and Implication Studies. *Environmental Science: Nano (In Press)*.
- Zhang, X., Chen, H, Bisesi, J, Saleh, NB, Lednicky, J and Sabo-Attwood, T. (2016). Modulation of Toll-like receptor 3 activity by Pristine SWNTs (*In review*)
- John A. Lednicky, Matthew Bender, Kevin P. Fennelly, Chang-Yu Wu, Lewis J. Radonovich, Julia C. Loeb, Diane Wyatt, Sara B. Hamilton, Shannon Hentschel, and Tara Sabo-Attwood (2015). Facile engineering of A549, MDCK, Mv1 Lu, and Vero cells that express increased levels of  $\alpha$ 2,3 or  $\alpha$ 2,6-linked sialic acid receptors and evaluation of their suitability for the propagation of human influenza A and B viruses. *Influenza Research and Treatment (In review)*.
- Smith LC, Ralston-Hooper KJ, Ferguson PL, Sabo-Attwood T (2016). The G Protein-Coupled Estrogen Receptor Agonist G-1 Inhibits Nuclear Estrogen Receptor Activity and Stimulates Novel Phosphoproteomic Signatures. *Toxicol Sci.* 2016 Jun;151(2):434-46.
- Smith LC, Clark JC, Bisesi JH Jr, Ferguson PL, Sabo-Attwood T. (2016). Differential recruitment of co-regulatory proteins to the human estrogen receptor 1 in response to xenoestrogens. *Comp Biochem Physiol Part D Genomics Proteomics*.
- Zhang H., Huang X., Gan J., Karmaus W., Sabo-Attwood T. (2016). A Two-Component G-Prior for Variable Selection. *Bayesian Analysis.* 11(2); 353.

- Jiang HH., Jang M., Sabo-Attwood T., Robinson S. Oxidative Potential of Secondary Organic Aerosols Produced from Photooxidation of Different Hydrocarbons using Outdoor Chamber Under Ambient Sunlight. *Atmospheric Environment* 151(2):434-446.
- Khan IA, Flora JR, Nabiul Afrooz AR, Aich N, Schierz PA, Ferguson PL, Sabo-Attwood T, Saleh NB. Change in Chirality of Semiconducting Single-Walled Carbon Nanotubes Can Overcome Anionic Surfactant Stabilization: A Systematic Study of Aggregation Kinetics. *Environ Chem.* 2015 May 20;12(6):652-661.
- Coman A, Cherecheș RM, Ungureanu MI, Marton-Vasarhelyi EO, Valentine MA, Sabo-Attwood T, Gray GC. An assessment of the occupational and environmental health needs in seven Southeastern European and West-Central Asian countries. *J Epidemiol Glob Health.* 2015 Dec;5(4):375-84. doi: 10.1016/j.jegh.2015.04.004. Epub 2015 May 8.
- Candice Lavelle, Joseph H. Bisesi Jr, Meghan Hahn, Kevin J. Kroll, Tara Sabo-Attwood, and Nancy Denslow. Oral Bioavailability and Sex Specific Tissue Partitioning of Quantum Dots in Fathead Minnows, *Pimephales promelas* *Environmental Science: Nano* 2, 583-593.
- Joseph H. Bisesi Jr, Thuy Ngo, Satvika Ponnayolu, Keira Liu, Candice M. Lavelle, A.R.M Nabiul Afrooz, Navid B. Saleh, P. Lee Ferguson, Nancy D. Denslow, Tara Sabo-Attwood. (2015) Examination of single-walled carbon nanotubes uptake and toxicity from dietary exposure: Tracking movement and impacts in the gastrointestinal system. Special issue of *Nanomaterials – ‘Nanotoxicology’*, 5(2), 1066-1086.
- Jaime Plazas-Tuttle, Lewis S. Rowles III, Hao Chen, Joseph H. Bisesi Jr., Tara Sabo-Attwood, Navid B. Saleh (2015). Dynamism of Stimuli-Responsive Nanohybrids: Environmental Implications. Special issue *Nanomaterials – ‘Nanotoxicology’*, 5(2), 1102-1123.
- Coman A, Cherecheș RM, Ungureanu MI, Vasarhelyi Marton EO, Valentine MA, Sabo-Attwood T, Gray GC. (2015). An Assessment of the Occupational and Environmental Health Needs in Seven Southeastern European and West-Central Asian Countries. *Journal of Epidemiology and Global Health*; May 8.
- Hongmei Zhang, Xianzheng Huang, Jianjun Gan, Wilfried Karmaus, and Tara Sabo-Attwood (2015). A two-component G-prior for Variable Selection. *Bayesian Analysis (In Press)*
- Iftheker Khan, Joseph Flora, A. R. M. Afrooz, Nirupam Aich, Ariette Schierz, P Ferguson, Tara Sabo-Attwood, Navid Saleh. (2015). Change in Chirality of Semiconducting Single-Walled Carbon Nanotubes Can Overcome Anionic Surfactant Stabilization: A Systematic Study of Aggregation Kinetics. *Env Chem*, May 20.
- Xiao Zheng, Jiahai Lu, Sarah K. White, Tara Sabo-Attwood, and Gregory C. Gray (2015). Adopting and Implementing a One Health Approach for Solving Complex Health Problems in China. *Chinese Journal of Preventative Medicine*, 49 (5).

- Pallab Sanpui, Xiao Zheng, Julia Loeb, Joseph Bisesi Jr, Ifthakar Khan, Nabiul Afrooz, Kiera Liu, Appala R. Badireddy, Mark R. Wiesner, P. Lee Ferguson, Navid Saleh, John Lednicky and Tara Sabo-Attwood (2014). Single-walled carbon nanotubes increase pandemic influenza A H1N1 virus infectivity of lung epithelial cells. *Part Fibre Toxicol.* 2014 Dec 14;11(1):66. PMID 25497303.
- Denslow ND and Sabo-Attwood, T. (2014). Environmental Indicators. Chapter 40: Molecular Bioindicators of Pollution in Fish. Editors Robert Armon and Osmo Hanninen, October; Pp 695-720.
- Ifthekar A Khan, PhD; Joseph R V Flora, PhD; A. R. M. Nabiul Afrooz, Nirupam Aich, P. Ariette Schierz, PhD; P. Lee Ferguson, PhD; Tara Sabo-Attwood, PhD. (2014). Aggregation Kinetics of Single-Walled Carbon Nanotubes with Specific Chirality: Role of Selected Anionic Surfactants. *Chemosphere. (In Press)*
- Schierz, A.; Espinasse, B.; Wiesner, M.; Bisesi, J.H.; Sabo-Attwood, T.; Ferguson, P.L. (2014). Detection, fate, and transport of single-walled carbon nanotubes in wetland ecosystems after long-term exposure, *Environmental Science: Nano*, 1, 574-583.
- Gustavo A. Dominguez, Joseph H. Bisesi, Kevin Kroll, Nancy D. Denslow, and Tara L. Sabo-Attwood. (2014). Control of transcriptional repression of the vitellogenin receptor gene in Largemouth bass (*Micropterus salmoides*) by select estrogen receptors isotypes. *Toxicological Sciences*, Oct 1;141(2):423-31.
- Navid B. Saleh, A. R. M. Nabiul Afrooz, Joseph H. Bisesi Jr., Nirupam Aich, Jaime Plazas-Tuttle, and Tara Sabo-Attwood. (2014). Emergent Properties and Toxicological Considerations for Nanohybrid Materials in Aquatic Systems. *Nanomaterials; Special Issue on Nanotoxicology*, 4(2), 372-407.
- Sean P. McGee, Hongmei Zhang, Wilfried Karmaus and Tara Sabo-Attwood. (2014). The Influence of Sex and Disease Severity on Gene Expression Profiles in Individuals with Idiopathic Pulmonary Fibrosis. *International Journal of Molecular Epidemiology and Genetics*, May 29;5(2):71-86.
- 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. *Journal of Analytical Oncology*, 2(3); Dec 2013, 142-150.
- Bisesi, J.H, J. Merten, K. Liu, A.N. Parks, A.R.M. Afrooz, J.B. Glenn, S.J. Klaine, A.S. Kane, N.B. Saleh, P.L. Ferguson, and T. Sabo-Attwood (2014). Tracking and quantification of single-walled carbon nanotubes in fish using near infrared fluorescence. *Environ. Sci. Technol.*, Feb 4, 48(3): 1973-1983.

- Jamie Ritchey, Hongmei Zhang, Wilfried Karmaus, Susan E Steck, Tara Sabo-Attwood, (2014). Linearity assessment methods for sex steroid hormones and carrier proteins among men in the National Health and Nutrition Examination Survey (NHANES III). *Steroids*. 2014 Apr;82:23-8.
- 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.
- Jones, KW, Wang, J, Chan, YC, Yuan, Q, Linqviet, WB, Petera, WB, Peters, C, Um, W, Newman, L, Sabo-Attwood, T, Tappero, R. (2013). Tomographic Investigations Relevant to the Rhizosphere. *Soil–Water–Root Processes: Advances in Tomography and Imaging*. Stephen H. Anderson and Jan W. Hopmans (ed.), July pp 23-38. Special Issue, Soil Science Society of America Inc.
- 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.
- 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-Attwood, 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.
- Yousefi, M., et al. (2011). Expression Of Leptin Receptor Gene In The Placenta Is Associated With Fetal Growth. *American Journal Of Epidemiology.* Vol. 173. Journals Dept, 2001 Evans Rd, Cary, Nc 27513 Usa: Oxford Univ Press Inc.
- 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.* Jun;6(4):353-60.
- 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.



- Akari Jagawa, Yoshio Sugaya, Koichi Goka, Tara Sabo-Attwood, G. Thomas Chandler, Shosaku Kashiwada. (2009). Application of an *In Situ* Hepatic and Gill CYP1A Activity Assay to River Water Quality Monitoring Using the See-through Medaka, *Oryzias latipes*. Japanese Journal of Environmental Toxicology. Vol. 12 (2009) No. 1 P 55-58
- 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., Kroczyńska, 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-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, 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 Isoforms 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:*

- NSF CBET. Bisesi (PI), **Sabo-Attwood T (Co-PI)**. Understanding how interaction of single walled carbon nanotubes with biological interfaces in the gastrointestinal system may alter chemical bioavailability. 2016 – 2019, \$300,000.
- International Research Support Initiative Program (IRSIP) Higher Education commission (HEC), Islamabad Pakistan. Student Exchange Program. Sabo-Attwood T (PI). 2016, \$3,500..
- Florida Fish and Wildlife Commission. **Sabo-Attwood T (PI)**. Denslow (Co-PI). Assessment of molecular markers during the reproductive cycle of largemouth bass. 2016 – 2017, \$27,000.
- Florida Department of Environmental Protection. Assays to determine estrogenic activity in Florida waters. Denslow N (PI), **Sabo-Attwood T (Co-PI)**, Bisesi J (Co-PI). \$35,000. 2015-2016.
- USDA NIFA Postdoctoral Training Fellowship. Investigating the Use of Nanomaterials in Sequestration of Pathogens Relevant to Aquaculture. Lavelle C (PI Trainee): **Sabo-Attwood T (PI Mentor)**. \$160,000. 2015 – 2017.
- Korean Ministry, Exposure of Human Airway Epithelial Cells in vitro to Secondary Organic Aerosol Produced Using a Large Outdoor Smog Chamber. Jang M (PI), **Sabo-Attwood T (Co-PI)**. \$400,000. 2014-2017.
- Electric Power Research Institute, Influence of Particulates on Pulmonary Deposition of VOCs and SVOCs. Roberts S (PI), **Sabo-Attwood T (Co-PI)**, \$577,807, 2014 – 2016.

- NIH/NHLBI R01, Defining the role of toll-like receptors in the toxicity of nanoparticles and pathogens. **Sabo-Attwood T (PI)**, Lednicky J (Co-I), Ferguson PL (Co-I), Saleh 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 N (Co-PI). \$300,000, 2012-2016.

*COMPLETED:*

- NIH-D43, One Health Fellowships For Zoonotic Disease Research In Mongolia. Gray G (PI), **Sabo-Attwood T (Co-I)**. 304,713.000. 2013-2014.
- NIH FIC 1R24TW0095461, One Health Center For Environmental And Occupational Research. Gray G (PI), Coman A (PI), **Sabo-Attwood T (Co-I)**. \$100,000. 2012-2014.
- 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.
- NIH/NIEHS, Mechanisms of Xenoestrogen Stress: A Proteomic and Functional Genomic Approach. **Sabo-Attwood T (MPI)**, Ferguson PL (MPI). \$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 C1ca1 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:*

Candice Lavelle, USDA Postdoctoral Fellow  
 Muhammad Sohail, visiting PhD student (International Research Support Initiative Program)  
 Ley Cody Smith, PhD student  
 Hao Chen, PhD student  
 Sarah Townsend, PhD student  
 Amanda Buerger, PhD student (Co-advised with Dr. Bisesi)  
 Brandi Travis, undergraduate  
 Julia Duffin, undergraduate  
 Nick Andreacchio, undergraduate  
 Lindsey North, undergraduate honors student  
 Alyssa Simons, MPH student  
 Michael Leach, MHS student  
 Katie McNamara, MHS student  
 Ricardo Martinez, MPH student

### *PAST:*

Hayley Johnson, MHS student  
 Shannon Hentschel, MS student  
 Justine Nicholas, MS student  
 Christine Singer, MHS student  
 Jane Ritho, MHS student  
 Bahareh Keith MD, MHS student

Thuy Ngo, MPH student  
 Hayleigh Crosby, undergraduate (PHEP Honors Thesis)  
 Joseph Bisesi, Research Assistant Professor  
 Shivani Gupta, high school student (Student Science Training Program)  
 Ankush Bikkasani, high school student (Student Science Training Program)  
 Cruz Ortiz, MS student (Co-advised with DR. Wu)  
 Xiao Zheng, PhD student  
 Elif Oruc, Visiting Professor (Co-advised with Dr. Denslow)  
 Joe Bisesi PhD, Postdoctoral Associate, *2011-2014*  
 Kirsten Blanzky, MPH, *2013-2015*  
 Melani Dickenson, MPH, *2013 – 2015*  
 Alex Burne, MPH, *2013 – 2014*  
 Sumith Jayasingthe, PhD, postdoctoral associate, *2012 - 2014*  
 Jenn Knapp, Undergraduate (PHEP Honors Thesis), *2014*  
 Raed Narvel, MPH, *2012-2014*.  
 Zachary Lowenstein, MPH, *2012-2014*.  
 Blake Castillo, Undergraduate, (PHEP Honors Thesis), *2012-2014*  
 Kristal Gant, Undergraduate Researcher, *2014*  
 Pallab Sanpui PhD, Postdoctoral Associate, *2011 - 2013*  
 Camille Estupijan, Undergraduate Student, *2013*  
 Kaitlyn Summerfield, MPH, *2011-2013*  
 Mary Leigh Morris, MPH Student, *2012-2013*  
 Ley Cody Smith, MS, *2011-2013*  
 Karishma Chhabria, MPH Researcher, *2011-2012*  
 Kunj Shroff, Undergraduate Researcher  
 Gustavo Dominguez, PhD, *2009 - 2012*  
 Jessica Clark, Postdoctoral Associate, *2008-2010*  
 Karin Gaertner, PhD, *2007-2010*  
 Leslyn Bertch-Richardson, MS, *2007-2009*  
 Shivani Patel, Undergraduate Researcher, *2009*  
 Avnika Amin, High School Student, *2008*  
 Arch Martin, Magellan Scholar, *2010*  
 Maria Eugenia-Ariza, Research Assistant Professor, *2007-2010*  
 Sean McGee, MS, *2010*  
 Gustavo Dominguez, MS, *2009*  
 Shosaku Kashiwada, Research Assistant Professor, *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 –POSTDOC AWARDS:*

- Pellston Workshop™ “Advancing the Adverse Outcome Pathway Concept – An International Horizon Scanning Approach, Cody Smith, *2017*.
- CEEZAD level 3 training fellowship, Sarah Townsend Humes, *2016*.
- Presentation Research Award, SESOT, Cody Smith, *2016*.

- Best Paper Award, SSTEP program, Shivani Gupta, 2016.
- Graduate Student Fellowship, UF College of PHHP, Sarah Townsend, 2015 - 2018.
- Graduate Student Fellowship, UF College of PHHP, Amanda Buerger, 2015 – 2018.
- Outstanding EGH MPH Student Award, Kirsten Blanzky, 2015.
- Recipient of Dow Agro Internship - Student Program in Regulatory Sciences and Regulatory Affairs R&D, Xiao Zheng, 2015.
- USDA Postdoctoral Fellowship recipient, Candice Lavelle, 2015 – 2017.
- Graduate Student Travel Award, Society of Toxicology, Xiao Zheng, 2015.
- Graduate Student Travel Award, Society of Environmental Toxicology and Chemistry, Cody Smith, 2014, 2013.
- Inman Travel Award, UF Veterinary Graduate Student Association, Cody Smith, 2014
- UF Graduate Student Council Travel Grant, Cody Smith, 2014, 2013
- Elected Graduate Student Representative, Molecular and Systems Biology Specialty Section, Society of Toxicology, Cody Smith, 2014.
- Elected Southeastern Regional Chapter Representative and Fundraising Subcommittee chair, Student Advisory Council, Society of Environmental Toxicology and Chemistry, Cody Smith, 2014.
- Outstanding presentation in Public health, 1<sup>st</sup> Place at SACNAS conference, Justine Nicholas, 2014.
- 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 - 2016.
- 1<sup>st</sup> place Society of Toxicology Graduate Student Award, Molecular Biology Specialty Section, Ley Cody Smith, 2013.
- 1<sup>st</sup> place poster presentation Sean McGee, USC Graduate Research Day, 2009.
- 1<sup>st</sup> place poster presentation Leslyn Bertch-Richardson, USC Graduate Research Day, 2009.
- 3<sup>rd</sup> 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:*

Lindsey North, undergraduate honors, Public Health, UF  
 Michael Leach, MHS, Dept of Environmental and Global Health, UF  
 Huanhuan Jiang, PhD, Department of Environmental Engineering, UF  
 Alexis Wormigton, PhD, Dept of Environmental and Global Health, UF  
 Edwin Arauz, PhD, Dept of Physiological Sciences, UF  
 Trevor Tilly, PhD, Department of Environmental Engineering, UF  
 Justine Nicholas, MS, Dept of Physiological Sciences, UF  
 Mary Merrill, PhD, Dept of Environmental and Global Health, UF  
 David Drier, Dept of Physiological Sciences, UF  
 Amanda Berger, PhD, Dept of Environmental and Global Health, UF (Co-Chair Dr. Bisesi)

Sarah Townsend, PhD, Dept of Environmental and Global Health, UF  
Alyssa Simons, MPH, Dept of Environmental and Global Health, UF  
Nick Vandervoort, PhD, Dept of Environmental Engineering, UF  
Tania Bonny, PhD, Dept of Environmental and Global Health, UF  
Marissa Valentine, PhD, Dept of Environmental and Global Health, UF  
Sarah White, PhD, Dept of Environmental and Global Health, UF  
Hao Chen, PhD, Dept of Environmental and Global Health, UF  
Ley Cody Smith, PhD, Dept of Physiological Sciences, UF  
Kevin Kircheval, PhD, Dept of Physiological Sciences, UF

*COMPLETED (MS/MHS; PhD):*

Christine Singer, MHS, Dept of Environmental and Global Health, UF  
Bahareh Keith, MHS, Dept of Environmental and Global Health, UF  
Jane Ritho, MHS, Dept of Environmental and Global Health, UF  
Ben Andersen, PhD, Dept of Environmental and Global Health, UF  
Shannon Hentschel, MS, Dept of Microbiology and Genetics, UF  
Xiao Zheng, PhD, Dept of Environmental and Global Health, UF  
Cruz Ortiz, MS, Department of Environmental Engineering, UF (Co-Chair, DR. Wu)  
Gustavo Dominguez, PhD, Dept of Environmental and Global Health, UF/USC  
Michael von Fricken, PhD, Dept of Environmental and Global Health, UF  
Candice Lavelle, PhD, Dept of Physiological Sciences, UF  
Georgia Hinkley, PhD, Dept of Physiological Sciences, UF  
Raed Narvel, MPH, Dept of Environmental and Global Health, UF  
Zachary Lowenstein, MPH, Dept of Environmental and Global Health, UF  
Alexandra Burne, MPH, Dept of Environmental and Global Health, UF  
Kaitlyn Summerfield, Dept of Environmental and Global Health, UF  
Claudia T. Kusano, PhD, Department of Epidemiology, UF  
Justin Jones, PhD, Dept of Chemistry and Biochemistry, USC  
Laural Coons, PhD, Dept of Chemistry and Biochemistry, USC/Duke  
Karin Gaertner, PhD, Dept of Environmental Health Sciences, USC  
Jessica Clark, PhD, Dept of Chemistry and Biochemistry, USC  
Lauren Shaw, MS, Dept of Chemistry and Biochemistry, USC  
Marion Lawrence-Snyder, PhD, Dept of Chemistry and Biochemistry, USC  
Boyd Pritchard, PhD, Dept of Chemistry and Biochemistry, USC  
Ike Ogbuanu, PhD, Dept of Epidemiology and Statistics, USC  
Austin Faulkner, MS, Dept of Chemistry and Biochemistry, USC  
Cole Hexel, PhD, Dept of Chemistry and Biochemistry, USC  
Gagan Deep, PhD, Dept of Chemistry and Biochemistry, USC  
Benjamin Bey, PhD, Dept of Environmental Health Sciences, USC  
Miguel Uyaguari, PhD, Dept of Environmental Health Sciences, USC  
Hilary Sparks, PhD, Dept of Environmental Health Sciences, USC  
Jamie Richey, PhD, Dept of Epidemiology and Biostatistics, USC  
Marcie Eaddy, PhD, Dept of Biology, USC  
Ori Barber, PhD, Department of Engineering, UF  
Sean McGee, MS, PhD, Dept of Environmental Health Sciences, USC

Lisa Wickliffe, PhD, Dept of Environmental Health Sciences, USC  
Sumith Jayasinghe, PhD, Dept of Environmental Health Sciences, USC  
Katie Allen, PhD, Dept of Biology, USC  
Jennifer McLarty, PhD, USC School of Medicine, Department of Cell Biology and Anatomy, USC  
Keisha Nobles, PhD, Dept of Biostatistics, USC  
Nikki Sitasuwan, PhD, Dept of Chemistry and Biochemistry, USC

## **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, 2013, 2014, 2015, 2016. Enrollment 60 – 96. Student evaluation instructor average 4.4 (at or above Dept and College means)
- GMS7593, Functional Genomic Applications in Pharmacology and Toxicology, 2013, 2015, 2016: Co-taught with Nancy Denslow. Student evaluations 4.6.
- ENHS 774, Risk Assessment and Interactions of Environmental Toxicants, University of South Carolina, 2006-2010. Enrollment 10-15. Student evaluations:; 2007 (4.53); 2008 (4.83); 2009 (4.92).
- ENHS 793, Molecular Techniques of Environmental Science and Toxicology, University of South Carolina, 2007. Enrollment 10-15. Student evaluations 4.84
- ENHS 793. Environmental Genomics, 2009, University of South Carolina. Enrollment 8-16. Student evaluations 4.9.
- ENHS 765, Applied Research Seminar, University of South Carolina, 2009. Enrollment 8-15. Student evaluations 4.8.
- ENHS 790, Independent Study, University of South Carolina, 2006-2010.

### *UNDERGRADUATE COURSES:*

- Environmental Concepts in Public Health, University of Florida, developed for 2017, UF.
- Cell and Molecular Biology, Johnson State College, Johnson, VT, 2005.
- Biology of Nutrition and Fitness, Champlain College, Burlington, VT, 2004.

### *LECTURES:*



- Keynote lecture, Environmental and Global Health, Undergraduate Public Health Association, Sept 7, 2016.
- GMS7593, UF, Lecture on Intro to Nanotoxicology and Omics, March 2015.
- Science for Life Undergraduate Seminar BCH4905, University of Florida, February 4, 2015.
- Advanced Toxicology VME6603, UF, Lecture on Nanotoxicology, Nov, 2014.
- Science for Life Undergraduate Seminar BCH4905, University of Florida, February 6, 2014.
- PHHP undergraduate honors seminar, University of Florida, 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**

---

- C. Smith, D. Porter, T. Sabo-Attwood. Pro-Fibrogenic and Estrogen Receptor Signaling Pathways Converge in Lung Epithelial Cells. ATS International Conference Washington, DC, May 2017.

- T. Sabo-Attwood, H. Chen, S. Humes, J Lednicky. Nanotubes suppress the pulmonary immune response and increase viral infectivity of exposed mice. ATSATS International Conference Washington, DC, May 2017.
- C. Smith, S. Moreno, D. Porter, T. Sabo-Attwood. The Convergence of Fibrogenic and Estrogen Receptor Signaling Pathways: A Target for Multi-Walled Carbon Nanotubes, SOT Baltimore, MA, March 2016.
- Hao Chen, Julia C Loeb, Sara T Humes, Sarah E Robinson, John A Lednicky, Tara Sabo-Attwood. Single-walled Carbon Nanotubes Increases Influenza A Virus Infectivity through Oxidative Stress *in vitro*. SOT Baltimore, MA, March 2016.
- S.T. Humes, H. Chen, X. Zheng, J.A. Lednicky, V. Dang, N. Denslow, T. Sabo-Attwood. Impacts of Single-Walled Carbon Nanotubes on Lipid Composition and Host Immune Responses Following Infection with Influenza A Virus. SOT Baltimore, MA, March 2016.
- Nicholas, J.N., H. Chen, J.H. Bisesi, K. Lu, P.L. Ferguson, W.L. Castleman, D. Bolser, T. Sabo-Attwood. Near Infrared Fluorescence Imaging and Quantitation Reveal Biopersistence of Single-Walled Carbon Nanotubes in Murine Lung. Platform Presentation. Young Environmental Scientist Meeting, Gainesville, FL. March 2016.
- Haley Johnson, Sarah E Robinson, Alyssa Simons, Ankush Bikkasani, Andy Kane Joseph H Bisesi Jr, Tara Sabo-Attwood. Novel Mechanisms of Nanomaterial Toxicity through Direct Exposure or Indirect Interactions with Environmental Components. Society of Toxicology and Chemistry (SETAC). Orlando, FL, November, 2016.
- S.T. Humes, H. Chen, S. Hentsche, X. Zheng, J.A. Lednicky, V. Dang, N. Denslow, T. Sabo-Attwood. Influence of Nanomaterials on Pandemic Influenza Virus Infection. CEEZAD Conference, Kentucky, Oct 2016.
- Sohail, M, Johnson, H, Robinson, SE, Lavelle, C, Sabo-Attwood, T. Optimizing immune endpoints in the Fathead minnow model. Southeast Regional SETAC Conference. Gainesville, FL, October 2016.
- Bisesi, JH, Robinson, SE, Ferguson, PL,, Denslow, ND, Sabo-Attwood, T. Hormone Receptor Bioanalytical Assays As Indicators Of Endocrine Disrupting Potential: Case Studies From The Field And Laboratory. Society of Toxicology and Chemistry (SETAC). Orlando, FL, Nov 2016.
- Bisesi, J.H., T. Ngo, B. Castillo, C.M. Lavelle, S.E. Robinson, H. Crosby, N. Saleh, P.L. Ferguson, N.D. Denslow, T. Sabo-Attwood. Fish gastrointestinal systems alter the sorption of organic contaminants to single-walled carbon nanotubes. 9th International Conference on the Environmental Effects of Nanoparticles and Nanomaterials. Golden, CO, Oct 2016.

- Andreacchio, N, Lavelle, C, Sabo-Attwood, T, Denslow, ND. Behavioral and Reproductive Implications of Nanomaterial and Synthetic Estrogen Co-Exposures in Fish. Southeast Regional SETAC conference. Gainesville, FL, Nov 2016.
- LC Smith, CM Lavelle, Fahong Yu, Cecilia Silva-Sanchez, Natalia Garcia Reyero, Joseph H Bisesi, Nancy Denslow, Tara Sabo-Attwood. Tissue-based mapping of the fathead minnow (*Pimephales promelas*) transcriptome and proteome. Society of Toxicology and Chemistry (SETAC). Orlando, FL, Nov 2016.
- S. Robinson, H. Johnson, J. Bisesi, NB. Saleh, T. Sabo-Attwood. Novel toxicity associated with emerging hybrid nanomaterials in aquatic systems. Society of Toxicology and Chemistry (SETAC). Orlando, FL, Nov 2016.
- Sabo-Attwood T, .Robinson, Bisesi, JH, S, Saleh, NB, Ferguson, L, Denslow, ND. Impacts of fish gastrointestinal system on single-walled carbon nanotube-ethinyl estradiol sorption behavior. Society of Toxicology and Chemistry (SETAC). Orlando, FL, Nov 2016.
- Bisesi Jr, Joseph H., Sit, Ho Fei, Robinson, Sarah E., Ferguson, P. Lee, Sabo-Attwood, Tara. gastrointestinal tracts influence the sorption of organic contaminants to single-walled carbon nanotubes. Challenges in assessing chemical contamination of water in resource poor countries: Lessons learned during field sampling in Haiti. Society of Toxicology and Chemistry (SETAC). Orlando, FL, Nov 2016.
- Humes, ST 1, Lavelle, CM 1, Hentschel, S 2, Smith, LC 1, Sabo-Attwood T 1. Overcoming Carbon Nanomaterial Interference in qRT-PCR Assessments of Gene Expression Changes in Exposure Experiments. Southeast Regional SETAC Conference. Gainesville, FL, October 2016
- Chen, H., X. Zheng, J. Nicholas, J.C. Loeb, J.H. Bisesi, S. Robinson, J.A. Lednicky, T. Sabo-Attwood. Single-walled carbon nanotubes induce suppressed pulmonary immune response and increased viral infectivity on exposed mice. Platform Presentation. Young Environmental Scientist Meeting, Gainesville, FL. March 2016.
- Gupta S, Robinson, S, Sabo-Attwood, T. The Effects of Nanohybrid Particles on Growth and Mortality of Fathead Minnows. SSTP Research Symposium, July 2016.
- L. Cody Smith, Candice Lavelle, Cecilia Silva-Sanchez, Nancy Denslow, Tara Sabo-Attwood. Ethinylestradiol and Levonorgestrel Activate Divergent Signaling Pathways with Distinct Protein Targets in the Brains of Male Fathead Minnows. Young Environmental Scientist Meeting, Gainesville, FL, March, 2016.
- S.Hentschel, H. Chen, J. Loeb, J. Lednicky, and T.Sabo-Attwood. Carbon Nanoparticles Modulate Viral Infectivity: A Role for Sialic Acid Receptors. Society of Toxicology, New Orleans, LA, March, 2016.

- H. Chen, X. Zheng, J. Nicholas, J.C. Loeb, J.H.Bisesi, S. Robinson, J.A. Lednicky, and T. Sabo-Attwood. Single-Walled Carbon Nanotubes Suppress the Pulmonary Immune Response and Increase Viral Infectivity of Exposed Mice. Society of Toxicology, New Orleans, LA, March, 2016.
- J.N. Nicholas, H. Chen, J. Bisesi, P.L.Ferguson, K. Lui, D. Bolser, J. Lednicky, and T. Sabo- Attwood. Utilization of Near Infrared Fluorescence Imaging to Track and Quantify Pulmonary Retention of Single-Walled Carbon Nanotubes in Mice. Society of Toxicology, New Orleans, LA, March, 2016.
- LC Smith and T Sabo-Attwood. Multi-Walled Carbon Nanotubes Down-Regulate Estrogen Receptor Alpha Gene Expression in Human Lung Epithelial Cells: A Potential Role for Transforming Growth Factor. Society of Toxicology, New Orleans, LA, March, 2016.
- H. Chen, X. Zheng, J. Nicholas, J.C. Loeb, J.H.Bisesi, S. Robinson, J.A. Lednicky, and T. Sabo-Attwood. Single-Walled Carbon Nanotubes Suppress the Pulmonary Immune Response and Increase Viral Infectivity of Exposed Mice. UF EPI research Day, Feb 2016.
- S.Hentschel, H. Chen, J. Loeb, J. Lednicky, and T.Sabo-Attwood. Carbon Nanoparticles Modulate Viral Infectivity: A Role for Sialic Acid ReceptorsUF EPI Research Day, Feb 2016.
- L. Cody Smith, Candice Lavelle, Cecilia Silva-Sanchez, Nancy Denslow, Tara Sabo-Attwood. Ethinylestradiol and Levonorgestrel Activate Divergent Signaling Pathways with Distinct Protein Targets in the Brains of Male Fathead Minnows. UF Genetics Research Day , Gainesville, FL, November 2015.
- C.M. Lavelle, J.H. Bisesi, N. Saleh, T. Waltzek, T. Sabo-Attwood. Viral Interactions with Carbon Nanomaterials and the Applicability to Aquaculture. USDA Fellows Conference, Washington, DC, August 4, 2015.
- Sabo-Attwood, Tara, Bisesi Jr, Joseph H, Rheingans, R, Okech, B, Robinson, Sarah E., Ferguson, PL. Ali, A, Kane, A. Expanding environmental toxicology in One Health by studying the role of contaminants in complex health problems; case studies in Haiti and Kenya. Society of Toxicology and Chemistry, Salt Lake City, UT, Nov 1-5, 2015.
- Bisesi, JH, Ngo,T, Castillo, B, Lavelle, CM, Robinson, SE, Saleh, NB, Ferguson, PL, Denslow, ND, Sabo-Attwood, T. Impacts of fish gastrointestinal system pH on single-walled carbon nanotube-ethinyl estradiol sorption behavior. Society of Toxicology and Chemistry, Salt Lake City, UT, Nov 1-5, 2015.
- Crosby, Hayleigh M, Robinson, Sarah E., Lavelle, Candice M, Ferguson, P. Lee, Bisesi Jr, Joseph H. Sabo-Attwood, Tara. Examination of the interactions of fish gastrointestinal

and plasma proteins with single-walled carbon nanotubes using near infrared fluorescence. Society of Toxicology and Chemistry, Salt Lake City, UT, Nov 1-5, 2015.

- C.M. Lavelle, J.H. Bisesi, N. Saleh, T. Waltzek, T. Sabo-Attwood. Viral Interactions with Carbon Nanomaterials and the Impact on Fish Toxicity. Society of Toxicology and Chemistry, Salt Lake City, UT, Nov 1-5, 2015.
- Ngo, T., B. Castillo, C.M. Lavelle, S.E. Robinson, N.B. Saleh, P.L. Ferguson, N.D. Denslow, T. Sabo-Attwood, J.H. Bisesi. Impacts of fish gastrointestinal system pH on single-walled carbon nanotube-ethinyl estradiol sorption behavior. Poster, North America SETAC Meeting. Salt Lake City, UT. November 2015
- Bisesi, J.H., T. Ngo, B. Castillo, K. Blanzky, M. Dickenson, S. Peterson, S.E. Robinson, P.L. Ferguson, N.D. Denslow, B. Okech, T. Sabo-Attwood, Screening for estrogenic activity using in vitro hormone receptor assays: case studies from the field and laboratory. Platform Presentation, SE SETAC Meeting, Pensacola, FL, September 2015
- L. Cody Smith, Candice Lavelle, Cecilia Silva-Sanchez, Fahong Yu, Nancy D. Denslow, Tara Sabo-Attwood. Optimizing a LC-MS/MS-Based Phosphoproteomic Analysis. Society of Toxicology and Chemistry, Salt Lake City, UT, Nov 1-5, 2015.
- Denslow N, Martyniuk, CJ, Sabo-Attwood T. Pipeline for the Identification of Non-Genomic Signaling Pathways Activated by Contaminant Exposure in Aquatic Species. Society of Toxicology and Chemistry, Salt Lake City, UT, Nov 1-5, 2015.
- Denslow, N.D., Lavelle, C. Smith, L.C., Sabo-Attwood, T., Martyniuk, CJ. Integrative molecular responses of estrogens in the teleost brain. North American Society for Comparative Endocrinology. Ottawa, Canada, June 21-25, 2015.
- Denslow, N.D., Lavelle, C. Smith, L.C., Kroll, K. J., Garcia-Reyero, N., Sabo-Attwood, T., Martyniuk, C. J. Transcriptomic response of FHM brain to estrogens and androgens. Society of Experimental Biology, Omics session, Prague, Czech Republic, June 2015.
- Bisesi, JH; Ngo, T; Lavelle, CM, Liu, K, ; Ferguson, PL; Denslow, ND; Saleh, NB; Sabo-Attwood, T. Interactions of Single-Walled Carbon Nanotubes with Nutrients: Potential Implications For Aquatic Foodwebs, PRIMO, Norway, June 22-26, 2015.
- Bisesi, JH; Ngo, T; Castillo, B; Blanzky, K; Dickenson, M; Peterson, S; Robinson, SE; Ferguson, PL; Denslow, ND; Okech, B; Sabo-Attwood, T. Hormone Receptor Binding And Activation As An Indicator Of Endocrine Disrupting Potential: Case Studies From The Field And Laboratory. PRIMO, Norway, June 22-26, 2015.
- Sabo-Attwood T, Smith L, Lavelle C, Denslow N, Silva-Sanchez C. Probing the Phosphoproteome in Ecotoxicology: A Case study Identifying Signaling Pathways in the Brains of Fathead Minnows. PRIMO, Norway, June 22-26, 2015.

- L. Cody Smith, Candice Lavelle, Cecilia Silva-Sanchez, Nancy Denslow, Tara Sabo-Attwood. Levonorgestrel and Ethinylestradiol Activate Rapid Signaling Pathways in the Brains of Male Fathead Minnows. Young Environmental Scientist Conference, Serbia, March 2015.
- Zheng X, Sabo-Attwood T. Enhanced Influenza Virus Infectivity through Suppression of Toll-Like Receptor Activity by Single-Walled Carbon Nanotubes. Society of Toxicology, San Diego, CA. March 22-26, 2015.
- Sabo-Attwood, T. Influence of Carbon Nanoparticles on Toll-like Receptor Activity and Pathogen Susceptibility, Society of Toxicology, San Diego, CA. March 22-26, 2015.
- L. Cody Smith and Tara Sabo-Attwood. The impact of estrogens on epithelial to mesenchymal transition in lung cells. Society of Toxicology, San Diego, CA. March 22-26, 2015.
- Joseph H. Bisesi Jr, Thuy Ngo, Nirupam Aich, Navid Saleh, Tara Sabo-Attwood. Analysis of the contributions of component materials to the toxicity of hybrid nanomaterials. Environmental Effects of Nanoparticles and Nanomaterials (ICEENN), University of South Carolina, Columbia, SC, Sept. 7 – 11, 2014.
- Joseph H. Bisesi Jr, Candice Lavelle, Kiera Liu, Lee Ferguson, Navid Saleh, Nancy Denslow, Tara Sabo-Attwood. Examination of the potential for single-walled carbon nanotubes to limit nutrient uptake by comparing gastrointestinal gene expression profiles during fish feeding studies. Environmental Effects of Nanoparticles and Nanomaterials (ICEENN), University of South Carolina, Columbia, SC, Sept. 7 – 11, 2014.
- L. Cody Smith, Candice Lavelle, Cecilia Silva-Sanchez, Nancy Denslow, Tara Sabo-Attwood, Quantitative Changes in the Phosphoproteome in the Brains of Male Fathead Minnows Exposed to Ethynyl Estradiol and Levonogestrol using iTRAQ; The Struggle Is Real! Society of Toxicology and Chemistry (SETAC), Vancouver, CA, November 9-13, 2014.
- Tara Sabo-Attwood, Gustavo Dominguez, Joseph Bisesi, B. Sumith Jayasinghe and Nancy D. Denslow. A role for both soluble and membrane estrogen receptors in reproductive processes in fish. Society of Toxicology and Chemistry (SETAC), Vancouver, CA, November 9-13, 2014.
- Bisesi JH, Castillo B, Lavelle CM, Denslow ND, Ferguson PL, Sabo-Attwood T. Nanoparticle-contaminant interactions in the environment: A case study of the potential for single-walled carbon nanotubes to suppress xenoestrogen effects in fish. Society of Toxicology and Chemistry (SETAC), Vancouver, CA, November 9-13, 2014.
- Blake Castillo, Joseph Bisesi, Tara Sabo-Attwood. Single-Walled Carbon Nanotubes (SWCNTs) Impact the Classic Effects of Chemical Contaminants: A Mechanistic Examination of Co-Exposures to Ethinylestradiol and SWCNTs in Fish. SACNAS, Los Angeles, CA, October 16-18, 2014.

- Justine Nicholas, Joseph Bisesi,, Xiao Zheng, Donald Bolser, Tara Sabo-Attwood. Pulmonary Clearance and Quantification Of Single-Walled Carbon Nanotubes (Swcnts) In Mice. SACNAS, Los Angeles, CA, October 16-18, 2014.
- Cruz Ortiz Jr., Tara Sabo-Attwood, Jun Wang, Chang-Yu Wu. Validating The Use Of A Silica Precursor To Mitigate Nano-Sized Metal Particle Toxicity In The Respiratory System. SACNAS, Los Angeles, CA, October 16-18, 2014.
- Nancy D. Denslow, B. Sumith Jayasinghe, Kevin J. Kroll, Natàlia Garcia-Reyero, Tara Sabo-Attwood. Hepatic vitellogenin induction in fathead minnows is influenced through both soluble estrogen receptors and membrane receptors. SETAC Europe, Basil Switzerland, May 11-15, 2014.
- Joseph H. Bisesi Jr, Blake Castillo, Candice Lavelle, Lee Ferguson, Nancy Denslow, Tara Sabo-Attwood. Effects of co-exposure of single walled carbon nanotubes and ethinyl estradiol on estrogen receptor binding, activation, and downstream responses in fish. SETAC Europe, Basil Switzerland, May 11-15, 2014.
- Tara Sabo-Attwood, Joseph H. Bisesi Jr, Candice Lavelle, Lee Ferguson, Navid Saleh, Nancy Denslow. *In vivo* tracking of single walled carbon nanotubes and their modulation of nutrient transport and processing genes during fish feeding studies. SETAC Europe, Basil Switzerland, May 11-15, 2014.
- Tara Sabo-Attwood, Pallab Sanpui, Xiao Zheng, Julia Loeb, John Lednický, Navid Saleh and Nabiul Afroz. Influence of Carbon Nanoparticles on Toll-like Receptor Activity and Pathogen Susceptibility. Society of Toxicology, Phoenix, AZ, March 23-27, 2014.
- X. Zheng, N. Afroz, N. Saleh, J Bisesi and T. Sabo-Attwood. Modulation of Toll-Like Receptor Activity by Pristine Single-Walled Carbon Nanotubes with Distinct Chiral Enrichment. Society of Toxicology, Phoenix, AZ, March 23-27, 2014.
- Smith, LC, McGee, SP, Zhang, H, Karmaus, W, Sabo-Attwood, T. Sex Differences in Gene Expression Profiles in Individuals with Idiopathic Pulmonary Fibrosis; Potential Targets of Xenoestrogens? Society of Toxicology, Phoenix, AZ, March 23-27, 2014.
- Tara Sabo-Attwood, Joseph H. Bisesi Jr, Blake Castillo, Lee Ferguson, Navid Saleh, Nancy Denslow. Impact of Nanomaterials on Growth and Reproductive Parameters in Fish. NSF Nanoscale Science and Engineering Grantees Conference, Arlington, VA, December 4-6, 2013.
- Bisesi, JH, Ponnayolu, S, Liu, K, Afroz, 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, Ponnnavolu, 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? NanoFlorida, Gainesville, FL, September 29-30, 2013.
- Cruz Ortiz Jr.<sup>1</sup>; Sabo-Attwood, T.<sup>3</sup>, Wang, J.<sup>2</sup>, Wu, C.-Y.<sup>1</sup> Toxicity Mitigation of Metal Nanoparticles by using a Silica Precursor. NanoFlorida, Gainesville, FL, September 29-30, 2013.
- Xiao Zheng, Pallab Sanpui, John Lednicky, Julia Loeb, Tara Sabo-Attwood. Modulation of Toll-like Receptor Activity and Expression by Single-walled Carbon Nanotubes. NanoFlorida, Gainesville, FL, September 29-30, 2013.
- Sabo-Attwood T. Close encounters of an Infectious Kind: Investigating the Interplay between Nanoparticles and Pathogens. NanoFlorida, 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 Vitellogenin 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. 7<sup>th</sup> International Symposium on Fish Endocrinology, Buenos 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. 7<sup>th</sup> International Symposium on Fish Endocrinology, Buenos 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. 7<sup>th</sup> 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. 7<sup>th</sup> 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. 18<sup>th</sup> International Conference on Environmental Indicators, Hefei China, September 10-18, 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. 5<sup>th</sup> 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 platform, Sabo-Attwood, T. Impacts of fish gastrointestinal system on single-walled carbon nanotube-ethinyl estradiol sorption behavior. Society of Toxicology and Chemistry (SETAC). Orlando, FL, Nov 2016.
- Keynote invited speaker, Sabo-Attwood, T. A role for phosphoproteomic approaches in investigating rapid hormonal signaling networks perturbed by environmental contaminants, SESOT, University of Georgia, October 2016.

- Invited seminar, Sabo-Attwood, T. The Influence of Carbon Nanomaterials on Pathogen Susceptibility, University of California - Riverside, Feb 3, 2016.
- Invited seminar, Sabo-Attwood, T. The Influence of Carbon Nanomaterials on Pathogen Susceptibility, Clemson University, Nov 17, 2015.
- Invited seminar, Sabo-Attwood, T. Modulation of Innate Immunity by Carbon Nanomaterials, Physiological Sciences, Sept 1, 2015.
- Invited platform, Sabo-Attwood, T. Evolution of Nanotoxicology: Progress and Setbacks Towards Understanding the Health and Safety of Contemporary Nanomaterials. Gordon Research Conference on Environmental Nanotechnology, Stowe, VT, June 21-26, 2015.
- Invited platform, Cohen, M., Sabo-Attwood, T. Next Generation of Immunotoxicologists, Japanese Society of Toxicology, Kobe, Japan July 2-4, 2014.
- Invited platform, Sabo-Attwood, T. Influence of Carbon Nanoparticles on Toll-like Receptor Activity and Pathogen Susceptibility. Symposium Session - Three Dimensions of Nanomaterial Pulmonary Toxicity: Innate Immunity, TLRs, and Inflammasomes, Society of Toxicology, Phoenix, AZ, March 23-27, 2014.
- Invited platform, Sabo-Attwood T. Close encounters of an Infectious Kind: Investigating the Interplay between Nanoparticles and Pathogens. NanoFlorida, Gainesville, FL, September 29-30, 2013.
- Invited platform, Sabo-Attwood, T. 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.
- Invited seminar, Sabo-Attwood, T. Investigating the Toxicity of Carbon Nanomaterials on Aquatic and Mammalian Systems. University of South Florida, October 4, 2013.
- Invited seminar, Sabo-Attwood, T., Bisesi, J., Denslow, N. Use of Molecular Bioassays in Aquatic Field Studies. Florida Fish and Wildlife Conservation Commission, June 28, 2013.
- Invited platform, Sabo-Attwood, T, Dominguez, G, Denslow ND. Modulation of the vitellogenin receptor by xenoestrogens in largemouth bass. 7<sup>th</sup> International Symposium on Fish Endocrinology, Endocrine Disruption session, Buenos Aires, Argentina, Sept 3-6, 2012.
- Invited platform, Sabo-Attwood T, Mechanisms of Xenoestrogens in Endocrine Disruption. AMCB retreat, Whitney Laboratory, ST. Augustine FL, March 30-31, 2012.

- Invited seminar, 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.
- Invited seminar, Sabo-Attwood T, Differential estrogen receptor transcriptional complex formation in response to environmental estrogens. Physiological Sciences Seminar Series, University of Florida, Jan 31, 2012.
- Invited platform, 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.
- Invited platform, 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.
- Invited platform, 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.
- Invited platform, 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.
- Invited platform, 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*.
- Invited platform, 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*.
- Invited platform, 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.
- Invited platform, 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.

- Invited platform, 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. 18<sup>th</sup> International Conference on Environmental Indicators, Hefei China, September 10-18, 2010.
- Invited platform, Tara Sabo-Attwood, Nanomaterials and the Environment, InnoVenture Nanotechnology Community, USC, April 15, 2010.
- Invited platform, Tara Sabo-Attwood, Nanomaterials and the Environment, InnoVenture Southeast 2010. Greenville, SC, May12-13, 2010.
- Invited seminar, Tara Sabo-Attwood, Nanomaterials; emerging contaminants, potential toxicity. Columbia College, April 5, 2010.
- Invited seminar, Tara Sabo-Attwood, Deciphering Signaling Networks Triggered by Asbestos and Implications for Pulmonary Fibrosis. Duke University, February 26, 2010.
- Invited Keynote Lecture, Tara Sabo-Attwood, Environmental and Toxic Effects of Nanoparticles, International Conference of Biogeochemistry and Trace Elements, Chihuahua, Mexico, July 13-17 2009.
- Invited platform, 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.
- Invited platform, 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.
- Invited seminar, Tara Sabo-Attwood, Lee Ferguson, Jessica Clark, Mechanisms of Xenoestrogen Stress: A Proteomic and Functional Genomic Approach, Clemson University, September 14, 2009.
- Invited 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.
- Invited seminar, Tara Sabo-Attwood, Toxicity of Nanomaterials, USC Carolina Master Scholar Program for “Bionanotechnology”, June 11, 2009.



- Invited seminar, Tara Sabo-Attwood, Eugenia Ariza, Leslyn Bruschi-Richardson, Nanomaterials: Emerging contaminants, potential toxicity, USC Department of Engineering, *November 4, 2009*.
- Invited platform, S. Kashiwada, T. Sabo-Attwood, T. Kawaguchi, Eugenia Ariza, C.M. Aelion, H. Davis, P.L. Ferguson and G.T. Chandler. Aquatic Toxicology of Silver Nano-colloids in Medaka Fish Model. Society of Environmental Toxicology and Chemistry, Tampa, FL, *2008*.
- Invited platform, 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*.
- Invited platform, 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*.
- Invited platform, 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*.
- Invited seminar, Tara Sabo-Attwood, Environmental Toxicogenomics; Endocrine Disruption in Largemouth Bass Exposed to Xenoestrogens, Columbia Womens College, Columbia, SC, *2008*.
- Invited seminar, Tara Sabo-Attwood, Lee Newman, Plant Nanoparticle Interactions. USC Department of Biology seminar series, *2008*.
- Invited seminar, Tara Sabo-Attwood, Public Forum on Nanotechnology, Rhetoric of Science and Technology, USC, Columbia, SC, *2008*.
- Invited seminar, Tara Sabo-Attwood, USC Aiken Dept of Biology and Geology, Distinct Expression and Activity Profiles of Bass Genes in Response to Xenoestrogens, *2007*.
- Invited seminar, Tara Sabo-Attwood, Science Café, EngenuitySC, Impacts of ‘old’ and ‘emerging’ airborne pollutants on human health: asbestos fibers and nanomaterials, *2007*.
- Invited platform, 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*.
- Invited platform, Tara Sabo-Attwood, Maria Ramos-Nino, Jannet Kocerha and

Brooke T. Mossman. Transcriptional regulation of helical and mucin production by lung epithelial cells in response to asbestos and smoke. Philip Morris External Research Symposium, Washington, D.C., 2006.

- Invited seminar, Tara Sabo-Attwood, USC Department of Chemistry and Biochemistry Seminar Series, Complex Regulation of Mucins in a Model of Asbestos-Induced Pulmonary Injury, 2006.
- Invited seminar, Tara Sabo-Attwood, USC Medical School Department of Immunology and Cell Biology, Inhalation Models of Airborne Particle-Induced Lung Injury, 2006.
- Invited seminar, Tara Sabo-Attwood, USC Department of Exercise Science Seminar Series, Epithelial cell-specific gene profiling in a model of asbestos-induced pulmonary injury, 2006.
- Invited seminar, Tara Sabo-Attwood, Savannah River Ecology Laboratory Seminar Series, Distinct Expression and Activity Profiles of Bass Genes in Response to Xenoestrogens, 2006.

## **SERVICE ACTIVITIES**

---

- Judge, Global Health Case Competition, UF, 2017.
- Ladies for Ladies interactive seminar series, UF, 2017.
- Director, EGH seminar series, 2014-present.
- Public Health Executive Committee, UF, 2013-present.
- Executive Leadership Committee, UF, 2013-present.
- Public Health Task Force, UF, 2013-present.
- Organizing Committee, Gordon Research Conference on Nanotechnology, 2016-2017.
- Advisory Board; Environmental Science Nano Journal 2016.
- NIEHS Superfund Research Conference review panel, March 2016
- National Toxicology Review Panel, Feb 2016
- Appointed to the EPA Chartered Science Advisory Board, 2016 – 2019.
- Session Chair, Society of Toxicology and Chemistry, Salt Lake City, UT, Nov 1-5, 2015.
- Associate Editor, Nano Impact Journal, April, 2015-present.

- Elected Junior Councilor, Society of Toxicology Special Section on Nanotoxicology Board, May 2015-present.
- Organizing committee, International Conference on Nanoscience and Nanotechnology in the Environment, USC, 2014.
- Organizing committee, NSF grantees meeting, Washington DC, Dec 4-5, 2013.
- EGH Curriculum Committee, 2013-present.
- Session Chair, NSF grantees meeting, Washington DC, Dec 4-5, 2013.
- Organizing Committee, InterAmerican Academy of Sciences – Horizons, Chihuahua, Mexico, Nov 2012-present.
- Judge, MPH Research Presentation Day, University of Florida, 2011, 2012, 2013, 2014, 2015.
- Editorial Board, Frontiers in Genetics; Toxocogenomics, 2011-present.
- Public Health Marshall, University of Florida, 2011-2014.
- 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:*

NIH/NHLBI study section (NANO), 2014, 2015, 2016  
 AAAS Research Competitiveness Program (KACST), Review Panel, 2015  
 Natural Environment Research Council (NERC), Ad hoc review, 2015  
 Clemson University Experiment Station Program, 2012  
 Research Programme Aristeia, Ad hoc review, 2012  
 EPA STAR Review Panel, 2012, 2015  
 NSF CBET Nanotechnology Ad hoc review, 2011, 2013  
 NSF CBET CAREER Review Panel, 2009  
 International Sciences and Technology Center (ISTC/U.S. Civilian Research and Development Foundation, Ad hoc review, 2006

*JOURNAL REVIEWER:*

ACSNano  
 Analytical and Bioanalytical Chemistry  
 Aquatic Toxicology  
 Biology of Reproduction  
 Chemosphere  
 Comparative Biochemistry and Physiology  
 Ecotoxicology and Environmental Safety  
 Environmental Health Perspectives  
 Environmental Pollution

Environmental Science: Nano  
Environmental Science and Technology  
Environmental Toxicology and Chemistry  
Frontiers Toxicogenomics  
General and Comparative Endocrinology  
John Wiley & Sons  
Journal of the American Chemical Society  
Journal of Molecular Endocrinology  
Molecular Oncology  
Nanomaterials  
Nanotoxicology  
PLOS One  
Royal Society of Chemistry Advances  
Toxicology and Applied Pharmacology  
Toxicological Sciences