

TARA SABO-ATTWOOD, PhD

Professor and Dean
Arnold School of Public Health
University of South Carolina

Columbia, SC

(803) 727-2453

saboattw@mailbox.sc.edu

PROFESSIONAL SUMMARY

For 20 years I have been a dedicated public health professional who has advanced in academic leadership positions in administration, programming, culture building, and inclusion, diversity, equity and access. My greatest assets are my ability to think creatively and strategically, manage complex action plans in parallel and to foster multi-dimensional communication. My team spirit approach has allowed me to thrive in complex, dynamic work environments and during unexpected challenges (e.g. COVID). I am dedicated to furthering my leadership career where I can continue to grow and influence public health research, practice and training of the workforce.

ADMINISTRATIVE LEADERSHIP & SELECT ACCOMPLISHMENTS

Department Chair

Foundational Growth

- Redirected research focus with new hires, doubling the size of the department and diversity of faculty; Continued to expand the global health footprint in infectious disease
- Created departmental seminar series, student council, program for mentorship of junior faculty, structured marketing and communications infrastructure

Educational Management

- Implemented new degree programs: first doctoral program in public health with a One Health concentration; distance learning masters program; dual DVM-PhD and DVM-D programs; undergraduate study abroad program
- Manage annual enrollment of ~ 70 students across department programs
- Participated directly in two highly successful CEPH (re)accreditations
- 100% job placement of doctoral graduates

Research Expansion

- Prioritized recruiting faculty with expertise in AI/machine learning and sociology to explore the pathways of health risks more deeply in socially marginalized populations
- Increased extramural funding by 50%

Professional Development and Culture

- 100% success-rate competing for university Faculty and Staff Enhancement Opportunities that support varied professional development (i.e. women's leadership)

- Incorporated professional development goals into faculty and staff annual evaluations and student Individual Development Plans

Associate Dean & Director of Wellness Programs

Wellness

- Formed the first wellness program for the College
- Led doctoral student survey; community engagement with Track Trails Rx program

Inclusion, Diversity, Equity, Access (IDEA)

- Provided leadership for the college IDEA committee; development of university-level curriculum/certificates for training
- Led 2 college-wide retreats – one on curriculum and one climate survey

Professor

- Engaged in research projects that total > \$30M; > 100 publications
- Dissertation chair for 17 doctoral students (90 postdoctoral associates, graduate and undergraduate students overall)
- Deputy Director of the Southeastern Coastal Center for Agricultural Safety and Health; Co-Founder and Director of GatorWATCH™ –wastewater-based epidemiology initiative
- Active on many federal boards (e.g. EPA Science Advisory Board and FIFRA).

EDUCATIONAL BACKGROUND

Doctor of Philosophy - Biomedical Sciences, Environmental Toxicology, and Pharmacology, University of Florida, Gainesville, FL, 2003

Bachelor of Science - Medical Technology and Genetics
University of Connecticut, Storrs, CT, 1996

WORK HISTORY

Dean, Arnold School of Public Health, University of South Carolina

2024 - Current

Chair, University of Florida, Department of Environmental and Global Health

2015 - 2024

Associate Dean of Faculty Development, Cultural Affairs, and Wellness Programs

University of Florida, College of Public Health and Health Professions

2020 - 2022

Professor, University of Florida, Department of Environmental and Global Health

2020-Current

Administrative Director, Global Pathogens Discovery Laboratory

University of Florida, Department of Environmental and Global Health

2020-Current

Director, Wellness Programs, University of Florida, College of Public Health and Health Professions

2019-2020

Research Associate, Smithsonian Conservation Biology Institute, Washington, DC

2017-Current

Associate Professor, University of Florida, Department of Environmental and Global Health

2011-2020

Director of Nano-Environmental Strategic Group, University of South Carolina, Columbia SC

2007-2010

Assistant Professor, University of South Carolina, Department of Environmental Health Sciences
Arnold School of Public Health, Columbia, SC

2006-2010

Instructor, Cell and Molecular Biology, Johnson State College, Johnson, VT

2005

Instructor, Biology of Nutrition and Fitness, Champlain College, Burlington, VT

2004

Post-Doctoral NIH Fellow, University of Vermont, Department of Environmental Pathology,
Burlington, VT

2003-2005

NIEHS Superfund Graduate Research Fellow, University of Florida, Interdisciplinary
Biomedical Sciences Program, Center for Environmental and Human Toxicology

1998-2003

Cytogenetic Technologist, University of Florida Cytogenetics Laboratory, Department of
Pediatric Genetics

1998-2001

Coordinator of Genetic Research Programs, University of Florida Cytogenetics Laboratory,
Department of Pediatric Genetics

1996-1998

SELECT HONORS & AWARDS

University Research Professor Award, University of Florida, 2020

University Term Professor Award, University of Florida, 2019-2022

Fellow of the Executive Leadership in Academic Medicine training program, 2017-2018

Nominated 'Next Generation of Immunotoxicologists', Japanese Society of Tox, 2014

Inducted into Delta Omega Public Health Honor Society, Chapter Beta Upsilon, 2013

Graduate of Science Communications Academy, University of Florida, 2013
National Academy of Sciences Kavli Fellow in Nanotoxicology, 2011
'Rising Star' Award, University of South Carolina, 2010
Arnold School of Public Health Excellence in Teaching Award, University of S. Carolina, 2010
Nomination for Teacher of the Year Award, University of South Carolina, 2009
Mortar Board Excellence in Teaching Award, University of South Carolina, 2008
Patent for Largemouth Bass Gene Chip, University of Florida, 2004

PROFESSIONAL SOCIETY AFFILIATIONS

American Public Health Association (APHA)
Society of Environmental Toxicology and Chemistry (SETAC)
Society of Toxicology (SOT)
American Thoracic Society (ATS)
American Physiological Society (FASEB)
Delta Omega Public Health Honor Society, Chapter Beta Upsilon

SELECT BOARDS AND COMMITTEES

Advisory Board, One Health Center of Excellence, 2023-present
Chair, UF Water Institute Advisory Board, 2023-present
Member, EPA Federal Insecticide, Fungicide, and Rodenticide Act Committee, 2022 - 2025
Associate Editor, *Environmental Health Perspectives*, 2020 – Current
Advisory Board, *Environmental Science Nano*, 2018-Current
President of the Southeast Society of Toxicology, 2017-2018
Appointed (2 terms) to the EPA Chartered Science Advisory Board, 2015 -2021
Councilor, Society of Toxicology Specialty Section on Nanotoxicology, 2015

PROFESSIONAL FOREIGN TRAVEL

Zimbabwe, South Africa, Haiti, Argentina, Mexico, China, Romania, Portugal, Norway,
Switzerland, France, Canada, Romania

RESEARCH ACCOMPLISHMENTS SUMMARY

Research Projects and Grants - only PI and Co-PI role listed for Sabo-Attwood

Total Awards: \$30,927,413. Total Pending: \$20,000,000

NIEHS/P42 Superfund, Sabo-Attwood (PI) 1/2025 – 1/2029
Guiding Advancements in Toxicants and Oceans Research (GATOR)
Pending

NIOSH R01, Sabo-Attwood (PI) 12/2024 – 11/2027

Assess Personal Air Particulate Exposure and Respiratory Health Outcomes among Farmworkers in the Southeast
Resubmission Pending

NIH R01, Sabo-Attwood (PI) 5/2024 – 6/2028
Dual Exposure to Particulate and Virus Aerosols to Complex Cell Models
Pending

NSF DIES, Platt (PI), Sabo-Attwood (Co-PI) 8/2024 – 8/2028
DISES-RCN Designing Socioecological Models for Infection Risk Assessments
Pending

NIH/NIAID R35, Fan (PI), Sabo-Attwood (Co-PI) 3/2024 - 2/2028
Team-Based Research and Education in Engineering and Infectious Diseases
Resubmission Pending

NIH R21, Sabo-Attwood (PI) 8/2024 – 8/2026
Atmospheric transformation of harmful cyanobacterial algae and novel mechanisms of pulmonary toxicity
Pending (Scored 1%)

NIDA/U01DA051126, Cottler, Sabo-Attwood (MPI) 8/2023 - 8/2024
Integrating Wastewater-Based Epidemiology into the National Drug Early Warning System
Coordinating Center to Track Community Health Trends.

NIH/NIEHS R21, Sabo-Attwood (PI) 12/2022 - 11/2024
Assessing the Pulmonary Toxicity of Microplastic Fibers Complexed with Azo Dyes

U54 CDC/NIOSH, Morris (PI), Sabo-Attwood (Co-PI and Deputy Director) 10/2022 - 9/2027
Southeastern Coastal Center for Agricultural Safety and Health (SCCAHS)

NIH TL1 Training Grant, O'Connor (PI, student), Sabo-Attwood (mentor) 8/2022 - 5/2024
A CTS team approach to advancing preclinical research using a robust in vitro exposure model for aerosol delivery to co-cultured primary human cells.

NSF/CBET AW2028527, Ishika Nag (student), T. Sabo-Attwood (mentor) 2/2022 - 12/2022
Trainee Supplement, RAPID: Collaborative Research: Transforming Passive Protective Face Masks toward Active Capture and Inactivation of Coronavirus with Nano-assisted Surfactant Modification.

University of Florida, Screen, Test & Protect Program. Sabo-Attwood (PI) 6/2021 - 12/2023

Assessing Campus Community Health through Wastewater Tracking of SARS-CoV-2.

NIDA/U01DA051126 supplement, Cotler, Sabo-Attwood (MPI) 8/2021 - 2/2023
Integrating Wastewater-Based Epidemiology into the National Drug Early Warning System
Coordinating Center to Track Community Health Trends.

NSF RAPID 2028527, Sabo-Attwood (PI) 11/2020 – 11/2022
Collaborative Research: Transforming Passive Protective Face Masks toward Active Capture and
Inactivation of Coronavirus with Nano assisted Surfactant Modification.

University of Florida Seed Award, Platt (PI), Sabo-Attwood (Co-PI) 5/2020 – 4/2022
Using a Design Performance Safety Simulation Model to Forecast Infection Prevention Resilience
in Healthcare.

NIH 2R44ES030649-02, Arantza (PI), Sabo-Attwood (UF PI) 7/2020 - 6/2023
SBIR Phase II, Characterization of Toxicity of Airborne ENMs using Direct In Vitro Exposure

NIH R43ES030649-01, Arantza (PI), Sabo-Attwood (UF-PI) 5/2019 – 8/2021
SBIR Phase I, Characterization of Toxicity of airborne ENMs using Direct In-vitro Exposure
(DIVE).

NSF ERC Planning Grant 1936864, Swarup (PI), Sabo-Attwood (Co-PI) 9/2019 – 8/2020
Engineering Research Center for Smart Sensing, Mapping, and Forecasting of Water Quality for
Sustainable Coastal Ecosystems.

Florida Sea Grant. Kane (PI), Sabo-Attwood (Co-PI) 2/2019 - 1/2022
Investigations and Community Engagement to Address Theft and Vandalism Affecting Florida's
Gulf Coast Shellfish Production.

CDC/NIOSH U54OH011230, Morris (PI), Sabo-Attwood (Co-PI) 11/2018 - 9/2022
Southeastern Coastal Center for Agricultural Safety and Health (SCCAHS).

NSF CBET. Bisesi (PI), Sabo-Attwood (Co-PI) 7/2016 - 7/2019
Understanding how Interaction of Single Walled Carbon Nanotubes with Biological Interfaces in
the Gastrointestinal System may alter Chemical Bioavailability.

NSF ERC Planning Grant 184044, Russell (PI), Sabo-Attwood (Co-PI, UF Lead) 8/2018 - 7/2019
Engineering Research Center for Polymer Enhanced Biology.

UF Clinical Translational Science Institute, Sabo-Attwood (PI) 12/2018 - 6/2020
Lipidomics Profiling in Sputum Samples in Patients with Respiratory Viral Infections.

EPA. Sabo-Attwood (PI), Denslow (Co-PI) Ex Vivo Verification of Hard and Soft Acid- Base Rank Predictions for Protein Adducts & Histopathology.	6/2017 - 6/2019
UF Faculty Enhancement Opportunity. Sabo-Attwood (PI) Executive Leadership in Academic Medicine Academy.	2/2016 - 2/2018
Florida Fish and Wildlife Commission. Sabo-Attwood T (PI), Denslow (Co-PI) Assessment of molecular markers during the reproductive cycle of largemouth bass.	6/2016 - 5/2018
FL Department of Environmental Protection. Denlsow (PI), Sabo-Attwood (Co-PI) Assays to Determine Estrogenic Activity in Florida Waters.	2/2015 - 2/2018
USDA NIFA Postdoctoral Training Fellowship Lavelle (Trainee): Sabo-Attwood T (Mentor) Investigating the Use of Nanomaterials in Sequestration of Pathogens Relevant to Aquaculture.	2/2015 - 4/2017
NIH/NHLBI R01, Sabo-Attwood (PI) Defining the Role of Toll-like Receptors in the Toxicity of Nanoparticles and Pathogens.	8/2012 – 7/2018
Korean Ministry, Jang (PI), Sabo-Attwood (Co-PI) Exposure of Human Airway Epithelial Cells in vitro to Secondary Organic Aerosol Produced Using a Large Outdoor Smog Chamber.	2/2014 – 1/2017
International Research Support Initiative Program, Sabo-Attwood (PI) Higher Education Commission (HEC), Islamabad Pakistan, Student Exchange Program.	6/2017 – 12/2017
NSF/CBET, Sabo-Attwood (PI) Impact of Single-Walled Carbon nanotubes on Reproductive Parameters in Fish.	8/2012 – 2/2016
Electric Power Research Institute, Roberts (PI), Sabo-Attwood (Co-PI) Influence of Particulates on Pulmonary Deposition of VOCs and SVOCs.	3/2014 - 2/2016
NIH D43, Gray (PI), Sabo-Attwood (Co-PI) One Health Fellowships for Zoonotic Disease Research in Mongolia.	8/2013 – 8/2014
NIH FIC 1R24TW0095461, Gray (PI), Sabo-Attwood (Co-PI) One Health Center for Environmental and Occupational Research.	1/2012 – 1/2014
UF Opportunity Fund, Sabo-Attwood (PI)	5/2012 – 4/2014

Pulmonary Toxicity of Pathogens and Nanomaterials.

NSF/CBET, Saleh (PI), Sabo-Attwood (Co-PI) 8/2009 – 7/2012
Influence of Diameter and Chirality of Single-walled Carbon Nanotubes on their Fate and Effects in the Aquatic Environment.

NIH/NIEHS R21, Sabo-Attwood (MPI), Ferguson (MPI) 8/2009 - 7/2012
Mechanisms of Xenoestrogen Stress: A Proteomic and Functional Genomic Approach.

NSF/CBET, Newman L (PI), Sabo- Attwood T (Co-PI) 8/2008 - 7/2012
Plant Uptake and Interaction with Nanoparticles.

NOAA Coastal Services Center, Quattro (PI), Sabo-Attwood (Co-PI) 2/2009 - 3/2012
Using Gene Expression Profiles of Estuarine Grass Shrimp (*Palaemonetes pugio*) as Biosensors/Monitors of Coastal Ecosystem Health.

University of South Carolina Medical School 1/2009 - 12/2009
Karmaus (PI), Sabo-Attwood (Co-PI)
The Interdisciplinary Conference on Pregnancy and the Health of Women and Children.

University of South Carolina Honors College SURF Award. 8/2010 – 7/2011
Sabo-Attwood T (PI)

NSF/NIRT, Berube D (PI), Sabo-Attwood T (Consultant) 8/2008 - 7/2010
Intuitive Toxicology and Public Engagement.

NIH/NHLBI R03, Sabo-Attwood (PI) 8/2008 - 7/2010
The Influence of Gender on Molecular Signatures of Fibrotic Lung Disease.

NIH/NIEHS K22, Sabo-Attwood T (PI) 5/2006 – 4/2010
Mechanisms of Asbestos-Induced Clca1 and Mucin in Lung Epithelium.

SC EPSCoR/IDEA, Karmaus (PI), Sabo-Attwood (Co-PI) 1/2008 – 1/2009
Stress, Endocrine Disruption, and Adverse Pregnancy Outcomes.

University of South Carolina ASPH Seed Grant Program, Sabo-Attwood (PI) 2/2007- 2/2008
Gene Profiling of Lung Epithelial Cells Exposed to Single-Walled Carbon Nanotubes.

University of South Carolina Honors College SURF Award. 8/2008 – 7/2009
Sabo-Attwood T (PI)

University of South Carolina NanoCenter, Sabo-Attwood (PI)
Nanomaterials in the Environment.

1/2009 – 12/2009

University of South Carolina Research Foundation, Sabo-Attwood (PI)
Proposal for a Research Faculty Position in Environmental Toxicogenomics, Centenary Plan.

8/2007 – 8/2010

SELECT REFEREED PUBLICATIONS (past 10 years)

graduate student (g) or postdoc (p)

1. J. Bevenuto Mattar (g), K. Clarke (g), E. Coker, **T. Sabo-Attwood**; H. Hermana Miranda Hermsdorff1, A. Marçal Pimenta, J. Bressan. The interaction effect between PM2.5 exposure and physical activity on BMI in Brazilian graduates (CUME Study) (*In Review*)
2. K. Clarke (g), S. McKune, **T. Sabo-Attwood**, E. Coker. Risk Factors of Lower Height-for-Age among Children Under Five Years Old in Uganda: An Exposome Approach (*In Review*).
3. A. Manrique (g), K. Clarke (g), E. Coker, **T. Sabo-Attwood** (2023). The Adverse Health Effects Attributed to Sugarcane Burning: A Scoping Review (*In Review*).
4. L. Platt, X. Chen, **T. Sabo-Attwood**, N. Iovine, S. Brown, and B. Pollitt (2022). Using Socioecological Modeling for Healthcare Infection Prevention Predesign. Architectural Engineering and Design Management.
5. T. Tilly (g), R. Ward, A. Morea, S. Bisesi, G. Lewis, A. Eiguren, J. Lednicky, S. Hussain, M. Nelson, **T. Sabo-Attwood**, C. Wu (2023) Toxicity Assessment of CeO₂ and CuO Nanoparticles at the Air-Liquid Interface Using Bioinspired Condensational Particle Growth. Hygiene and Environmental Health Advances (7):100074.
6. S. N. Shankar, K. Mital, E. Le, G. Lewis, A.E. Fernandez, **T. Sabo-Attwood**, and C.Y. Wu (2023). Assessment of Scanning Mobility Particle Sizer (SMPS) for Online Monitoring of Delivered Dose in an In Vitro Aerosol Exposure System, Journal of Aerosol science.
7. S.T. Humes (g), M.L. Ingramb, M.C. Finnerty, S.E. Robinson, A. O'Conner (g), H. Chen (g), J. A. Lednicky, B. S. Cummings, **T. Sabo-Attwood** (2022). Impact of Single-Walled Carbon Nanotube Exposure on the Lung Cell Lipidome and Potential Implications for Influenza A Virus Infection. (*In review*, Nanotoxicology).
8. A. L. Rainey, K. Buschang, A. O'Conner (g), D. Love, A. Wormington, R. L. Messcher, J. C. Loeb, S. E. Robinson, H. Ponder, S. Waldo, R. Williams, J. Shapiro, E. B. McAlister, M. Lauzardo, J. A. Lednicky, A. T. Maurelli, **T. Sabo-Attwood**, J. H. Bisesi Jr. (2022). Wastewater-Based Epidemiology of SARS-CoV-2 under Dynamic COVID-19 Pandemic Response Efforts on a Large University Campus, ACS ES&T Water.
9. A. L. Rainey, J. C. Loeb, S. E. Robinson, P. Davis, J. A. Lednicky, E.C. Coker, **T. Sabo-Attwood**, J. H. Bisesi Jr., A. T. Maurelli (2022). Assessment of a Mass Balance Equation for Estimating Community-level Prevalence of COVID-19 using Wastewater-based Epidemiology, Scientific Reports 12, 19085.
10. K. Clarke (g), K. Ash, E.S. Coker, **T. Sabo-Attwood**, E. Bainomugisha (2022). Social Vulnerability to Air Pollution and the Spatially Varying Relationship to PM2.5 exposure in Uganda. Atmosphere (Special Issue) 13(8), 1169. IF 2.686.

11. S. T. Humes (g), N. Iovine, C. Prins, T. J. Garrett, J. A. Lednicky, E. S. Coker, **T. Sabo-Attwood**. (2022) Association Between Lipid Profiles and Viral Respiratory Infections in Human Sputum Samples, *Respiratory Research*, Jul 2:23(1):177.
12. A. L. Rainey, J. C. Loeb, S. E. Bisesi, J. A. Lednicky, J. McPherson, S. Colson, E. S. Coker, **T. Sabo-Attwood**, A. T. Maurelli, J. H. Bisesi Jr. (2022). Wastewater Surveillance for SARS-CoV-2 in a Small Coastal Community: Utility for Identifying Effects of Tourism on Viral Presence and Variant Identification among Low Prevalence Populations. *Environ Res*. May 15;208:112496.
13. **T. Sabo-Attwood**, D. Das, J. Plazas-Tuttle and N. B. Saleh (2019). Carbon nanotubes: Sublethal and unique mechanisms of toxicity in aquatic vertebrates. Book Chapter in *Toxicology of Nanoparticles and Nanomaterials in Human, Terrestrial and Aquatic Systems*, Editor M. Williams, Wiley SETAC.
14. M. Russo, S.T. Humes (g), A.M. Figueroa, A. Tagmount, P. Zhang, A. Loguinov, J.A. Lednicky, **T. Sabo-Attwood**, C.D. Vulpe, B. Liu. (2021). Organochlorine Pesticide Dieldrin Suppresses Cellular Interferon-Related Antiviral Gene Expression. *Toxicol Sci*. 2021 Aug 3;182(2):260-274.
15. **T. Sabo-Attwood**, J.H. Bisesi, A.S. Kane, A. Onur and N.B. Saleh (2021). Invited Review: Nano-scale Applications in Aquaculture: Opportunities for Improved Production and Disease Control. *J. Fish Dis*. 2021 Apr;44(4):359-370.
16. K. Clarke (g), A. Manrique (g). **T. Sabo-Attwood**, E.S. Coker (2021). A Narrative Review of Occupational Air Pollution and Respiratory Health in Farmworkers. *International Journal of Environmental Research and Public Health*, 18(8):4097.
17. J. Lednicky, M. Salemi, K. Subramaniam, T.B. Waltzek, **T. Sabo-Attwood**, J. C. Loeb, S. Hentschel (g), M. Tagliamonte, S. Marini, M. Alam, C.J. Stephenson, M. Elbadry and J.G. Morris Jr. (2021). Earliest detection of SARS-CoV-2 in Florida: Identification Together with Influenza Virus on the Main Entry Door of a University Building in February 2020. *PLoS One*, Jan 13:16(1):e0245352.
18. M. D. Montaña, K. Liu, **T. Sabo-Attwood** and P. L. Ferguson (2021). Analysis of Single-Walled Carbon Nanotubes in Estuarine Sediments by Density Gradient Ultracentrifugation Coupled to Near-Infrared Fluorescence Spectroscopy Reveals Disassociation of Residual Metal Catalyst Nanoparticles. *Environ Sci Technol*. Jan19;55(2):1015-1023.
19. A. M. Wormington, S. Robinson, D. Gabrielli, MZ. Nouridelavar, E. Coker, N. Denslow, **T. Sabo-Attwood**, J. H. Bisesi Jr. (2021). Emerging Investigator Series: Examination of the Gastrointestinal Lipidome of Largemouth Bass Exposed to Dietary Single-Walled Carbon Nanotubes. *Environ. Sci.: Nano*, 8, 2792-2801.
20. A. Menouni, R.C. Duca, I. Berni, M. Khouchoua, M. Ghosh, B. El Ghazi, N. Zouine, I. Lhilali, D. Akroute, S. Pauwels, M. Creta, K. Poels, P. Hoet, J. Vanoirbeeck, M. Kestemont, P. Janssen, **T. Sabo Attwood**, L. Godderis, and S. El Jaafari (2021). The Parental Pesticide and Offspring's Epigenome Study: Towards an Integrated Use of Human Biomonitoring of Exposure and Effect Biomarkers. *Toxics*. Dec; 9(12): 332.

21. E. Coker, J. Martin III, L. D. Bradley, K. Sem, K. Clarke and **T. Sabo-Attwood** (2020). A Time Series Analysis of the Ecologic Relationship Between Acute and Intermediate PM_{2.5} Exposure Duration on Neonatal Intensive Care Unit Admissions in Florida. *Environmental Research*, Oct 22;110374.
22. H. Chen (g), S. T. Humes (g), M. Rose, S. E. Robinson, J. C. Loeb, I. V. Sabaraya, L. C. Smith, N. B. Saleh, W. L. Castleman, J. A. Lednicky and **T. Sabo-Attwood** (2019). Hydroxyl Functionalized Multi-walled Carbon Nanotubes Modulate Immune Responses without Increasing 2009 Pandemic Influenza A/H1N1 Virus Titers in Infected Mice. *Toxicology and Applied Pharmacology* (1);404:115167.
23. H. Chen (g), S. T. Humes (g), J. A. Lednicky, N. B. Saleh and **T. Sabo-Attwood** (2019). Chapter 11: Nanomaterial effects on viral infection; Book Chapter in *Interaction of Nanomaterials with the Immune System*, Edited by James Bonner and Jared Brown, Springer, Cham, 167-195.
24. N. Aich, K. Kordas, I. Ahmed and **T. Sabo-Attwood** (2020). Shrinking Problems: The Hidden Risks of Electronic Waste; Perspectives from Environmental Engineering, Epidemiology, Environmental Health Sciences, and Human-Computer Interaction; Book Chapter in *Transforming Global Health*, Edited by Korydon H. Smith and Pavani Kalluri Ram, Springer, Cham, 161-178.
25. B. W. Brooks, **T. Sabo-Attwood**, K. Choi, S. Kim, J. Kostal, C. A. LaLone, L. M. Langan, L. Margiotta-Casaluci, J. You, and X. Zhang (2020). Toxicology Advances for 21st Century Chemical Pollution. *One Earth*. 2020 Apr 24; 2(4): 312–316.
26. T.B. Tilly, R.X. Ward, J.K. Luthra, S.E. Robinson, A. Eiguren-Fernandez, G.S. Lewis, R.L. Salisbury, J.A. Lednicky, **T. Sabo-Attwood**, S.M. Hussain, and C.Y. Wu (2019). Condensational Particle Growth Device for Reliable Cell Exposure at the Air-Liquid Interface to Nanoparticles. *Aerosol Science and Technology*, 53(12):1415-1428.
27. R.X. Ward, T.B. Tilly, S.I. Mazhar, S.E. Robinson, A. Eiguren-Fernandez, J. Wang, **T. Sabo-Attwood**, and C.Y. Wu (2020). Mimicking the Human Respiratory System: Online in Vitro Cell Exposure for Toxicity Assessment of Welding Fume Aerosol. *Journal of Hazardous Materials*, Apr 13;395:122687.
28. Hao Chen (g), Sarah T. Humes (g), S. E. Robinson, J. Loeb, I. Sabaraya, N. B. Saleh, R. B. Khattri, M. E. Merritt, C. J. Martyniuk, J. A. Lednicky and **T. Sabo-Attwood** (2019). Single-walled Carbon Nanotubes Repress Viral-Induced Defense Pathways through Oxidative Stress. *Nanotoxicology*, Nov;13(9):1176-1196.
29. L. C. Smith (g), S. Moreno (ug), S. Robinson, M. Orandle, D. W. Porter, D. Das, N. B. Saleh and **T. Sabo-Attwood** (2019). Multi-walled Carbon Nanotubes Inhibit Estrogen Receptor Expression In Vivo And In Vitro Through Transforming Growth Factor Beta1. *Nano Impact*, 14: Feb. 100152.
30. Merryman, I. Sabaraya, L. Rowles, A. Toteja, S. Carrillo, **T. Sabo-Attwood** and N. B. Saleh (2019). Preferential Interaction Between Functionalized Multiwalled Carbon Nanotubes and MS2 Bacteriophages in Water. *Science of the Total Environment*, 670: June,1140-1145.

31. J. Nicholas (g), H. Chen (g), K. Liu, J. H. Bisesi Jr, D. Bolser, W. Castleman, P. L. Ferguson and **T. Sabo-Attwood** (2018). Utilization of Near Infrared Fluorescence Imaging to Track and Quantify the Pulmonary Retention of Single-Walled Carbon Nanotubes in Mice. *Nano Impact* 14:Feb 2019, 100167. IF 5.316. doi: 10.1016/j.impact.2019.100167
32. Lavelle (p), L. C. Smith (g), J. H. Bisesi Jr., F. Yu, C. Silva Sanchez, D. Moraga, N. Garcia-Reyero, **T. Sabo-Attwood** and N. D. Denslow (2018). Tissue-based Mapping of the Fathead Minnow (*Pimephales promelas*) Transcriptome and Proteome. *Front Endocrinol (Lausanne)* Nov 6;9:611. IF 6.055. doi: 10.3389/fendo.2018.00611
33. Opeolu, G. Arts and **T. Sabo-Attwood** (2018). Setac Africa Women's Event (Safwe) in Calabar, Nigeria. *Setac Globe*. Volume 19, Issue 2 Feb.
34. **T. Sabo-Attwood**, J. H. Bisesi Jr., P. L. Ferguson (2018). Ecotoxicology and Environmental Health in the Developing World. *Setac Globe*. Special Issue April Volume19, Issue 4 Feb April.
35. C. Smith (g), S. Moreno (ug), L. Robertson (ug), S. Robinson, A. Bryant and **T. Sabo-Attwood** (2018). Transforming Growth Factor Beta1 Targets Estrogen Receptor Signaling in Bronchial Epithelial Cells. *Respiratory Research* Aug 30;19(1):160.
36. C. L. Smith (g), C. Lavelle (p), N. D. Denslow and **T. Sabo-Attwood** (2018). Early Phosphoproteomic Changes for Adverse Outcome Pathway Development in the Fathead Minnow (*Pimephales promelas*) Brain. *Scientific Reports* Jul 5;8(1):10212.
37. D. Das, I. V. Sabaraya, T. Zhu, **T. Sabo-Attwood** and N. B. Saleh (2018). Aggregation Behavior of Multiwalled Carbon Nanotube-Titanium Dioxide Nanohybrids: Probing the Part-Whole Question. *Environmental Science & Technology* Aug 7;52(15):8233-8241.
38. D. Das, I. V. Sabaraya, **T. Sabo-Attwood** and N. B. Saleh (2018). Insights into Metal Oxide and Zero-Valent Metal Nanocrystal Formation on Multiwalled Carbon Nanotube Surfaces During Sol-gel Hybridization. *Nanomaterials* Jun 5;8(6).
39. M. Sohail (g), S. A. M. A. S. Eqani, J. Podgorski, A. K. Bhowmik, A. Mahmood, N. Ali, H. Bokhari, **T. Sabo-Attwood** and H. Shen (2017). POP Emission Via Dust Fallout Throughout Pakistan: Fingerprinting of Recent Inputs, Regional Cycling and their Implication for Human Health Risks. *Sci Total Environ*. 2018 Mar 15;618:829-837.
40. S.M. Roberts, A.C. Rohr, V. Mikheev, J. Munson and **T. Sabo-Attwood** (2018). Influence of Airborne Particulates on Respiratory Tract Deposition of Inhaled Toluene and Naphthalene in the Rat. *Inhal Toxicol*. Jan;30(1):19-28.
41. H. Chen (g), X. Zheng (g), J. Nicholas (g), S. T. Humes (g), J. C. Loeb, S. Robinson, J. H. Bisesi Jr., D. Das, N. B. Saleh, W. Castleman, J. A. Lednický and **T. Sabo-Attwood** (2017). Single-walled Carbon Nanotubes Modulate Pulmonary Immune Responses and Increase Pandemic Influenza A Virus Titers in Mice. *Virology* Dec 22;14(1):242.
42. Y. Zechen, M. Jang, **T. Sabo-Attwood**, S. E. Robinson and H. Jiang (2017). Prediction of Delivery of Organic Aerosols onto Air-Liquid Interface Cells *in vitro* using an

- Electrostatic Precipitator. *Toxicol In Vitro*. Aug;42:319-328.
43. N. Garcia-Reyero, B.S. Jayasinghe, K.J. Kroll, **T. Sabo-Attwood** and N.D. Denslow. (2018). Estrogen Signaling through Both Membrane and Nuclear Receptors in the Liver of Fathead Minnow. *Gen Comp Endocrinol*. Gen Comp Endocrinol. 2018 Feb 1;257:50-66.
 44. N. Aich, A. Masud, **T. Sabo-Attwood**, J. Plazas-Tuttle, and N.B. Saleh (2017). Dimensional Variations in Nanohybrids: Property Alterations, Applications, and Considerations for Toxicological Implications. Chapter in *Nanostructure Science and Technology* book series, Hunyadi Murph, S., Larsen, G., Coopersmith, K. (eds), Springer.
 45. J. Bisesi (p), S. Robinson, C. Lavelle (p), T. Ngo (ug), B. Castillo (ug), H. Crosby (ug), P.L. Ferguson, N.B. Saleh, N. Denslow and **T. Sabo-Attwood** (2017). Influence of the Gastrointestinal Environment on the Bioavailability of Ethinyl Estradiol Sorbed to Single-walled Carbon Nanotubes. *Environ Sci Technol*. Jan 17;51(2):948-957.
 46. D. Das, J. Plazas-Tuttle, I.V. Sabaraya, S. S. Jain, **T. Sabo-Attwood** and N. B. Saleh (2017). An Elegant Method for Large Scale Synthesis of Metal Oxide-Carbon Nanotube Nanohybrids for Nano-environmental Application and Implication Studies. *Environmental Science: Nano* 4(1):60-68.
 47. L.C. Smith (g), K.J. Ralston-Hooper, P.L. Ferguson and **T. Sabo-Attwood** (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.
 48. L.C. Smith (g), J.C. Clark (g), J.H. Bisesi Jr (p), P.L. Ferguson and **T. Sabo-Attwood** (2016). Differential Recruitment of Co-Regulatory Proteins to the Human Estrogen Receptor in Response to Xenoestrogens. *Comp Biochem Physiol Part D Genomics Proteomics*.
 49. H. Zhang, X. Huang, J. Gan, W. Karmaus and **T. Sabo-Attwood** (2016). A Two-Component G-Prior for Variable Selection. *Bayesian Analysis*. 11(2); 353.
 50. H.H. Jiang, M. Jang, S. Robinson and **T. Sabo-Attwood** (2016). Oxidative Potential of Secondary Organic Aerosols Produced from Photooxidation of Different Hydrocarbons using Outdoor Chamber under Ambient Sunlight. *Atmospheric Environment* 151(2):434-446.
 51. I.A. Khan, J.R. Flora, A.R. N. Afrooz, N. Aich N, P.A. Schierz, P.L. Ferguson, **T. Sabo-Attwood** and N.B. Saleh. 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.
 52. Coman, R.M. Chereches, M.I. Ungureanu, E.O. Marton-Vasarhelyi, M.A. Valentine, **T. Sabo-Attwood** and G.C. Gray (2015). 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. Epub 2015 May 8.

53. Lavelle (p), J. H. Bisesi Jr, M. Hahn, K. J. Kroll, **T. Sabo-Attwood** and N. D. Denslow. Oral Bioavailability and Sex Specific Tissue Partitioning of Quantum Dots in Fathead Minnows, *Pimephales promelas* Environmental Science: Nano **2**, 583-593.
54. J. H. Bisesi Jr (p), T. Ngo (ug), S. Ponnayolu (ug), K. Liu, C. M. Lavelle (p), A.R.M Afrooz, N. B. Saleh, P. L. Ferguson, N. D. Denslow and **T. 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.
55. J. Plazas-Tuttle, L. S. Rowles III, H. Chen (g), J. H. Bisesi Jr.(p), **T. Sabo-Attwood** and N. B. Saleh (2015). Dynamism of Stimuli-Responsive Nanohybrids: Environmental Implications. Special issue Nanomaterials – ‘Nanotoxicology’, *5*(2), 1102-1123.
56. X. Zheng (g), J. Lu, S. K. White, **T. Sabo-Attwood** and G. C. Gray (2015). Adopting and Implementing a One Health Approach for Solving Complex Health Problems in China. Chinese Journal of Preventative Medicine, *49* (5).
57. P. Sanpui (p), X. Zheng (g), J. Loeb, J. H. Bisesi Jr.(p), I. Khan, N. Afrooz, K. Liu, A. R. Badireddy, M. R. Wiesner, P. L. Ferguson, N.B. Saleh, J.A. Lednický and **T. 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.
58. N.D. Denslow and **T. Sabo-Attwood** (2014). Environmental Indicators. Chapter 40: Molecular Bioindicators of Pollution in Fish. Editors Robert Armon and Osmo Hanninen, October; Pp 695-720.
59. Schierz, B. Espinasse, M. Wiesner, J.H. Bisesi, Jr.(p), **T. Sabo-Attwood**, and P.L. Ferguson (2014). Fate of Single-Walled Carbon Nanotubes in Wetland Ecosystems. Environmental Science: Nano, *1*, 574-583.
60. N. B. Saleh, A. R. M. Afrooz, J. H. Bisesi Jr.(p), N. Aich, J. Plazas-Tuttle and **T. Sabo-Attwood**. (2014). Emergent Properties and Toxicological Considerations for Nanohybrid Materials in Aquatic Systems. Nanomaterials; Special Issue on Nanotoxicology, *4*(2), 372-407.
61. S. P. McGee (g), H. Zhang, W. Karmaus and **T. 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, May29;5(2):71-86.

MENTORING (as primary mentor/advisor or committee chair, 90 total)

Junior Faculty, Postdoctoral Associates, Visiting faculty (11 total)
 Chair, Doctoral Students (17 total)
 Chair, Masters Students (34 total)
 Advisor Undergraduate Students (22 total)
 High School Students (6 total)

STUDENT & POSTDOCTORAL AWARDS (past 10 years)

- SouthON, Southeast Regional Research Symposium, Tampa, FL, First Place poster Award, Andres Manrique, 2023
- Outstanding Doctoral Student, Department of Environmental and Global Health, Kayan Clarke, 2023
- Agricultural State of the Science Symposium, Gainesville, FL, Distinguished Poster Award, Andres Manrique, 2023
- Clinical Translational Research Award, UF CTSI TL1 Training Fellowship, Amber O'Conner, 2022
- PHHP Research Day 1st place Research Award, Amber O'Conner, 2022
- Outstanding Student Research Award, Department of Environmental and Global Health, Amanda Buerger, 2020
- First Place for best platform presentation, Southeastern Society of Toxicology, Nima Madani, 2019
- Annual Conference for Southeastern Society of Environmental Toxicology and Chemistry, Pensacola FL, First Place Poster Award, Andres Manrique, 2019
- Outstanding Doctoral Student, Department of Environmental and Global Health, Sarah Humes, 2019
- Delores A. Auzenne Dissertation Award, UF, Sarah Humes, 2019
- Occupational and Public Health Specialty Section of the Society of Toxicology, Travel Award, Sarah Humes, 2019
- First Place for best platform presentation, Southeastern Society of Toxicology, Sarah Humes, 2018
- First Place for best poster presentation, Southeastern Society of Toxicology, Nima Madani, 2018
- Clinical Translational Research Award, University of Florida, Sarah Humes, 2018
- Outstanding Doctoral Student, Department of Environmental and Global Health, Hao Chen, 2018
- CDC Ambassadors Fellowship, Rebecca Austin-Datta, 2017-2019
- Presentation Research Award, Southeastern Society of Toxicology, Sarah Humes, 2017
- Presentation Research Award, Southeastern Society of Toxicology, Hao Chen, 2017
- 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, SSTP 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

TEACHING EXPERIENCE

Average student instructor evaluation scores, highest obtainable value 5.0; All courses in this section were developed as new courses by Sabo-Attwood; enrollments are averaged across years

Graduate Courses

PHC6937, Mechanisms of Environmental Disease, Spring 2021, co-taught with T. Maurelli.

Enrollment 8

Student evaluation instructor average 4.6

PHC6937, Public Health Research Methods, Spring 2020

Enrollment 10

Student evaluation instructor average 4.6

PHC 6937, Fundamentals of Grant Writing, Spring 2017, 2019, 2021, 2023

Enrollment: 10

Student evaluation instructor average 4.8

PHC 6313, Environmental Concepts in Public Health, 2011, 2012, 2013, 2014, 2015, 2016, 2019, 2021.

Enrollment 60 – 96.

Student evaluation instructor average 4.4

One Health Course in Environmental Health, Duke University, June 2-6, 2017, 2018, 2019, Durham, NC. 3 credit 1 week course for professionals.

Enrollment 30

GMS7593, Functional Genomic Applications in Pharmacology and Toxicology, 2013, 2015, 2016, 2019 - co-taught with N Denslow

Enrollment: 10

Student evaluations average 4.6.

ENHS 774, Risk Assessment and Interactions of Environmental Toxicants, 2006-2010

Enrollment 10-15

Student evaluations 4.83

ENHS 793, Molecular Techniques of Environmental Science and Toxicology, 2007

Enrollment 10-15.

Student evaluations 4.84

ENHS 793, Environmental Genomics, 2009

Enrollment 8-16

Student evaluations 4.9.

ENHS 765, Applied Research Seminar, 2009

Enrollment 8-15

Student evaluations 4.8.

One Health Course in Environmental Health, Duke University, June 2-6, 2017, 2018, 2019, Durham, NC. 3 credit 1 week course for professionals.

Enrollment 30, Co-taught with Bagamian

Undergraduate Courses

PHC 4320, Environmental Concepts in Public Health, 2017-2018

Enrollment 30-. Student evaluation instructor average 3.8.

Cell and Molecular Biology, Johnson State College, Johnson, VT, 2005

Enrollment 25

Biology of Nutrition and Fitness, Champlain College, Burlington, VT, 2004

Enrollment 30

Course Lectures

- Emerging Contaminants and Nanomaterials. Summer Health Professionals Education Program, University of Florida, June 26, 2018, 2019, 2022, 2023.
- Course: Covid-19 and the environment. Talk on 'Environmental pollution and (resilience to) infections', International Society of Environmental Epidemiology, April 2021.
- Novel *In Vitro* Approaches for Aquatic Monitoring of Emerging Contaminants, Capetown Peninsula University of Technology – Environmental Management Undergraduate Course, Sept. 2018.
- Environmental Impacts of a Sugar Tax. Summer Health Professionals Education Program, University of Florida, June 2018.
- One Health and Environmental Health; What's the Connection? Soils, Water and Public Health Course, University of Florida, March 21, 2018.
- Keynote lecture, Environmental and Global Health, Undergraduate Public Health Association, University of Florida, Sept 7, 2016.
- GMS7593, University of Florida, Lecture on Intro to Nanotoxicology and Omics, March 2015.
- Science for Life Undergraduate Seminar BCH4905, University of Florida, February 4, 2015.
- Advanced Toxicology VME6603, University of Florida, 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.

Workshops-Webinars-Taskforces

Taskforce: National Academies of Sciences, Engineering and Medicine Emerging Science for Environmental Health Decisions, Future-casting session participant. April 8, 2022.

Webinar: Environmental and Global Health four part series: Moderator T. Sabo-Attwood

- Sampling Sewage to Combat SARS: Using Wastewater-Based Epidemiology to Bridge the Gap between Environmental Monitoring and Public Health. (April 2021)
- Animals, Humans and Pathogens: Challenges and Opportunities to Improving Child Health Outcomes in Low and Middle Income Countries: Research, Donor and Implementing Partner Perspectives. (April 2021)
- The Air We Breathe: emerging technologies and interdisciplinary for assessing air quality impacts around the world. (May 2021)
- Department of Environmental and Global Health Open House (May 2021).

Workshop: Challenges and Opportunities for Women in Science: A U.S. Perspective. Society of Environmental Toxicology and Chemistry Africa, Women’sEvent September, Cape Town, South Africa, September 18th, 2018.

Workshop: National Academy of Sciences Webcast Workshop: Understanding Pathways to a Paradigm Shift in Toxicity Testing and Decision Making. Presented Case Studies: Towards aquatic monitoring of emerging contaminants. November 20-21, 2017, Washington DC.

Workshop: Challenges and Opportunities for Women in Science: A U.S. Perspective. Society of Environmental Toxicology and Chemistry Africa, Women's Event October 17-19, Calabar, Nigeria, 2017.

Workshop: 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.

Workshop: 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 LECTURES AND KEYNOTES (past 10 years)

- **Invited Presentation and Panel:** Synthetic Drug Conference, Mexico City, January 24-25, 2024. Sponsored by INL and DEA.
- **Invited Presentation:** Wastewater Surveillance as a Public Health Tool for Community Wellbeing, Southeastern Coastal Center for Agricultural Health and Safety, May 18, 2023.
- **Invited Presentation and Panel:** Observations on Drug Surveillance in Community Wastewater and Synthetic Drugs on the Streets of Mexico. Synthetic Drug Conference, Mexico City, March 29-31, 2023. Sponsored by INL and DEA.
- **Spotlight Presentation:** Office of National Drug Control Policy (ONDCP, White House) Webinar. Using Wastewater to Track Community Health, December 15, 2022
- National Drug Early Warning System (NDEWS) Scientific Advisory Group (SAG) Meeting, November 29th, 2022.
- **Invited Seminar:** Track Trails on a University Campus. Campus Nature Rx Symposium, November 4, 2022.
- **Invited Seminar:** Rotary, West Pal Chapter, Track Trails for Community Health, October 27, 2022.
- NIH/NIDA site visit. Using Wastewater to Track Illicit Drugs as a Measure of Community Health, September 16th, 2022.
- **Invited Seminar:** Rotary International, Gainesville FL Chapter, GatorWATCH, June 8, 2022
- **Invited Seminar:** Wastewater Analysis and Tracking of Community Health. College on Problems of Drug Dependence Conference, Denver Colorado, June 11, 2022.
- **Keynote:** Don't let your defenses down: A role for environmental chemicals in infectious disease susceptibility, SETAC Africa 10th Biennial Meeting, September 22, 2021.
- **Invited Seminar:** Big actions of small particles on respiratory defense networks in response to pathogens, CDC/NIOSH Pathology and Physiology Research Branch, September 8, 2021.
- **Invited Platform:** Bridging Nanotechnology and Public Health for Improved PPE. The 10th Conference of the Sustainable Nanotechnology Organization, November 2020.

- **Invited Seminar:** Rotary International, Working Together for a Healthy Environment. June 2020.
- **Invited Seminar:** Indecent Exposure? Investigating the relationship between pathogens and environmental agents. University of Rochester Environmental Medicine Seminar Series, April, 11, 2019.
- **Invited Seminar:** Novel Mechanisms of Nanomaterials, Seminar Series. University of Buffalo, April, 12, 2019.
- Cultivating Healthy Communities Through Nature-Based Initiatives, Environmental and Global Health Seminar Series, University of Florida, Feb 19, 2019.
- **Invited Seminar:** Threats to Water Sustainability and Re-use, Carnegie Mellon University, Cambridge, MA, November 29, 2018.
- **Invited Seminar:** Indecent Exposure? Investigating the relationship Nanomaterials and Pathogen Susceptibility, Division of Pulmonary, Critical Care and Sleep Medicine, May 2018.
- **Invited Seminar:** Indecent Exposure? Investigating the relationship between pathogens and environmental agents. Environmental Colloquium at the University of South Florida, Nov 7, 2018.
- **Keynote:** Research, Innovation and Technology for African Development, U6 Conference, Cape Peninsula University of Technology, September 3-6, 2018.
- **Keynote:** Nano-Evolution: Balancing Safety and Applications of Nanotechnology in Aquatic Systems. Eighth International Symposium on Aquatic Animal Health (ISAAH-8), 2018, Prince Edward Island.
- **Invited Seminar:** Novel Mechanisms of Nanomaterials in Aquatic Species, University of Calgary, Edmonton, Alberta, Canada, September, 2017.
- **Invited Platform:** Impacts of fish gastrointestinal system on single-walled carbon nanotube-ethinylestradiol sorption behavior. Society of Toxicology and Chemistry (SETAC). Orlando, FL, Nov 2016.
- **Keynote:** A role for phosphoproteomic approaches in investigating rapid hormonal signaling networks perturbed by environmental contaminants, Southeastern Society of Toxicology, University of Georgia, October 2016.
- **Invited Seminar:** The Influence of Carbon Nanomaterials on Pathogen Susceptibility, University of California, Riverside, CA, Feb 3, 2016.
- **Invited Seminar:** The Influence of Carbon Nanomaterials on Pathogen Susceptibility, Clemson University, Nov 17, 2015.
- **Invited Seminar:** Modulation of Innate Immunity by Carbon Nanomaterials, Physiological Sciences Seminar Series, University of Florida, Sept 1, 2015.
- **Keynote:** 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.

SELECT SERVICE ACTIVITIES

- Appointed EPA FIFRA Committee 2022-25

- Water Institute Faculty Advisory Committee Chair, 2023
- Associate Editor, *Environmental Health Perspectives*, 2020-present
- Development of COVID testing laboratory, 2020
- COVID RAPID panel member for EPA, 2020
- University of Florida Institutional Review Board member, 2018-2019
- Search Committee Chair for Departmental Chair position (HSRMP)
- Reviewer for tenure and promotion files (14 letters contributed from 2017-2023)
- Panel: Women in Science Event (for women in Africa), Nigeria (2017), Capetown, South Africa, 2018.
- Elected President, South East Society of Toxicology, 2018-2019; held annual conference at UF with record attendance (>80 participants).
- Fellow, Executive Leadership in Academic Medicine, Drexel University, 2017-2018.
- Judge, Global Health Case Competition, University of Florida, 2017, 2018.
- Public Health Executive Committee, University of Florida, 2013-present.
- Executive Leadership Committee, University of Florida, 2013-present.
- Organizing Committee, Gordon Research Conference on Nanotechnology, 2016-2017.
- Advisory Board; Environmental Science Nano Journal 2016-present.
- Appointed to the EPA Chartered Science Advisory Board, 2016–2022.
- Session Chair, Society of Toxicology and Chemistry, Salt Lake City, UT, Nov 1-5, 2015.
- 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.
- Organizing Committee, InterAmerican Academy of Sciences – Horizons, Chihuahua, Mexico, Nov 2012-2016.
- Editorial Board, *Frontiers in Genetics; Toxicogenomics*, 2011-present.
- External Advisory Board Member, Center for the Environmental Implications of Nanotechnology, Duke University, 2010-11.

Panel Reviewer

NIH special emphasis panel, March 6-7, 2024

NSF SBIR panel, August 2020

National Toxicology Review of Report for Carbon Nanotubes, 2019

NIH/DKUS study section, 2021

NIH/NIEHS study section (SIEE), 2019, 2020

NIH/NHLBI study section (NANO), 2014, 2015, 2016, 2018, 2021

NIEHS Superfund Research Conference review panel, 2016

National Toxicology Program Review Panel, 2016

AAAS Research Competitiveness Program (KACST) Panel, 2015

Natural Environment Research Council (NERC), 2015

Clemson University Experiment Station Program, 2012

Research Programme Aristeia, 2012
EPA STAR Panel, 2012, 2015
NSF CBET Nanotechnology, 2011, 2013, 2015, 2019
NSF CBET CAREER Review Panel, 2009, 2019, 2020
International Sciences and Technology Center (ISTC/U.S. Civilian Research and Development Foundation, 2006

PUBLISHED ABSTRACTS (only showing last 5 years 2018-2023 out of 170 total)

1. A. O'connor, K. Overdahl, L. Ferguson, T. Sabo-Attwood. A Role for Microplastic Fibers and Azobenzene Disperse Dyes in Allergic Airway Disease. Society of Toxicology, Nashville, TN, March 2023.
2. A. O'connor, K. Overdahl, L. Ferguson, T. Sabo-Attwood. Assessing the Sensitization Potential of Azobenzene Disperse Dyes using Human Dendritic Cells. Public Health and Health Professions Research Day, Gainesville FL, Feb 2023.
3. S. Milletich, S. Bisesi, L. Searcy, J. Bowden, N. Denslow, A. Maurelli, J. Bisesi Jr, T. Sabo-Attwood. Applying Wastewater Surveillance to Create a Predictive Model of Fentanyl Overdose Deaths and Assessing Locations of Interest, Society of Toxicology, Nashville, TN, March 2023.
4. A. Manrique, K. Clarke, J. Lednicky, T. Sabo-Attwood, E. Coker. Assessing Personal PM_{2.5} Exposure and Respiratory Virus Infections among Farmworkers in the Southeastern United States. Society of Toxicology, Nashville, TN, March 2023.
5. S. Pulaparthi, A. Manrique, J. Lascano, and T. Sabo-Attwood. Catch Your Breath: Assessing the Feasibility of Using Exhaled Breath Condensate for Rapid Respiratory Viral Detection. Emerging Pathogens Institute Research Day, Gainesville, FL, Feb 2023.
6. K. Clarke, T. Sabo-Attwood, E. Coker. Investigating the Joint Effect of Multiple Place-based and Household-level Factors on Height-for-age in Ugandan Children under Five Years of Age. Public Health and Health Professions Research Day, Gainesville FL, Feb 2023.
7. K. Clarke, T. Sabo-Attwood, E. Coker. Evaluating the Accuracy of Spatial Interpolation Models for Estimating Residential Ambient PM_{2.5} Exposure Concentrations in Kampala, Uganda. Society of Toxicology, Nashville, TN, March 2023.
8. S. Milletich, S. Bisesi, L. Searcy, J. Bowden, N. Denslow, A. Maurelli, J. Bisesi Jr, T. Sabo-Attwood. GIS Analysis and Wastewater Based Epidemiology: Bridging the Gap in Opioid Surveillance, Public Health and Health Professions Research Day, Gainesville FL, Feb 2023.
9. A. Manrique, T. Sabo-Attwood, J. Butler-Dawson, N. Denslow, C. Vulpe. Deciphering the Biomarker Puzzle: Identifying Biomarker Trends in Sugarcane Workers with Reduced Kidney Function and Acute Kidney Injury. Public Health and Health Professions Research Day, Gainesville FL, Feb 2023.
10. S. Shankar, K. Mital, G. Lewis, A. Fernandez, T. Sabo-Attwood, CY. Wu.

- Assessment of Scanning Mobility Particle Sizer (SMPS) for Online Monitoring of Delivered Dose in an In Vitro Aerosol Exposure System. American Association for Aerosol Research Conference, October 2022.
11. A. O'Conner, K. Overdahl, L. Ferguson, T. Sabo-Attwood. Exploring the Toxicity of Azobenzene Disperse Dyes Following Exposure to Lung Cells. Society of Toxicology Conference, March 2022.
 12. K. Clarke, E. Coker, T. Sabo-Attwood, K. Ash. Creating a Social Vulnerability Index for Uganda and Determining the Spatially Varying Relationship Between PM_{2.5} Exposure and Social Vulnerability. Society of Toxicology Conference, March 2022.
 13. N. Madani, J. Ulrich, M. Dickenson, J. Bisesi, P.L. Ferguson and T. Sabo-Attwood. Application of Effects Directed Analysis and Non-Target Mass Spectrometry to Complex Mixtures from Developing Country Water Samples. SETAC annual conference.
 14. N. Madani, J. Ulrich, M. Dickenson, J. Bisesi, P.L. Ferguson and T. Sabo-Attwood. Applying Non-Target Mass Spectrometry to Analyze Complex Chemical Mixtures in Water Samples from Developing Countries to Developed Countries. SE-Society of Toxicology and Chemistry annual conference.
 15. N. Madani, J. Ulrich, M. Dickenson, J. Bisesi, P.L. Ferguson and T. Sabo-Attwood. Analysis of Chemical Fingerprints In Complex Haitian Water Mixtures, 7th Biennial UF Water Institute Symposium. Feb 25-26 2020.
 16. S. Nannu Shankar, T. Tilly, A. Morea, S. Bisesi, A. Eiguren-Fernandez, T. Sabo-Attwood, C. Wu. Toxicity of Nanoparticles Exposed at the Air-Liquid Interface of Lung Cells: Localized vs. Distributed Deposition. 38th Annual conference conducted by American Association for Aerosol Research, 2020.
 17. T. Sabo-Attwood, S. T. Humes, L. Ingram, M. Finnerty, J. A. Lednicky, Brian S. Cummings. Changes in Cellular and Secreted Lipids after Exposure to Single-Walled Carbon Nanotubes have Impacts on Susceptibility to Influenza A Virus. Society of Toxicology Annual Conference, 2020.
 18. S. T. Humes, S.E. Robinson, N. Madani, H. Chen, C. Silva Sanchez, K.J. Kroll, N.D. Denslow, Tara Sabo-Attwood. Demonstration of Protein Adduct Formation on Neuronal Proteins after Exposure To 1-Bromopropane. Society of Toxicology Annual Conference, 2020.
 19. N. Madani, J. Ulrich, M. Dickerson, J. H Bisesi, L. Ferguson, T. Sabo-Attwood. Identification of Chemical Fingerprints in Complex Water Samples from Haiti, Public Health and Health Professions Research Day, University of Florida, Gainesville, Florida, April 4, 2019.
 20. S. Humes, C. Prins, N. Iovine, J. Lednicky, T. Sabo-Attwood, Evaluating Associations Between Lipid Markers and Respiratory Infection Status in Human Sputum Samples. Public Health and Health Professions Research Day, University of Florida, Gainesville, Florida, April 4, 2019.

21. N. Denslow, C. Lavelle, L. Smith, J. H. Bisesi Jr, C. Silva- Sanchez, A. Buerger, N. Garcia-Reyero, T. Sabo-Attwood. Proteogenomics of Fathead Minnow (*Pimephales Promelas*) as a First Step to Identify Transcript Variants of Importance to Neuroendocrinology. Session, Computational Tools in Comparative Endocrinology, NASCE, University of Florida, 2019.
22. T. Tilly, R. Ward, J. Luthra, S. Robinson, A. Eiguren- Fernandez, G. Lewis, R. L. Salisbury, J. A. Lednicky, T. Sabo- Attwood, S. M. Hussain, C. Wu. Condensational Particle Growth Device for Reliable Cell Exposure at The Air-Liquid Interface to Nanoparticles, American Associationfor Aerosol Research 37th annual conference, Portland, OR, October 2019.
23. T. Tilly, R. Ward, J. Luthra, S. Robinson, A. Eiguren- Fernandez, G. Lewis, R. L. Salisbury, J. A. Lednicky, T. Sabo- Attwood, S. M. Hussain, C. Wu. Condensational Particle Growth Device for Reliable Cell Exposure at The Air-Liquid Interface to Nanoparticles. Conference on Inhaled Aerosol Dosimetry: Models, Applications and Impact, October 10-12, 2019, The Arnoldand Mabel Beckman Center of the National Academies of Sciences and Engineering, Irvine CA.
24. S. Humes, S. Robinson, N. Madani, H. Chen, C. Silva Sanchez, K. Kroll, N. Denslow, T. Sabo-Attwood. Investigation of Protein Adduct Formation as a Mechanism of Neurotoxicity in Rats Exposed to 1-bromopropane, Society of Toxicology Annual Meeting, Baltimore, MD, March 10-14, 2019.
25. T. Sabo-Attwood, S. Humes, H. Chen, J. Lednicky, N. Denslow. Single-walled Carbon Nanotubes Perturb Lipid Metabolism and Signaling Resulting in Increased Susceptibility to Influenza A Virus Infection, Society of Toxicology Annual Meeting, Baltimore, MD, March 10-14, 2019.
26. S. Humes, J. Loeb, C. Prins, N. Iovine, J. Lednicky, T. Sabo-Attwood, T. Exploring Lipid Profiles and the Use of Multiplex PCR Assays in Human SputumSamples, Emerging Pathogens Institute Research Day, University of Florida, Gainesville, Florida, February 7, 2019.
27. T. Tilly, R. Ward, J. Luthra, S. Robinson, A. Eiguren- Fernandez, S. Hussain, T. Sabo-Attwood, J. Lednicky, C. Wu. Application of DAVID Cell Exposure System for Toxicity Analysis of Nanoparticles at the Air-Liquid Interface. Southeastern Regional Chapter of Society of Toxicology, University of Florida, Gainesville, Florida, October 25-26, 2018.
28. H. Chen, S. Humes, M. Rose, S. Robinson, J. Loeb, I. Sabaraya, C. Smith, N. Saleh,, W. Castleman, J. Lednicky, T. Sabo-Attwood. Multi-walled Carbon Nanotubes Modulate Immune Responses and Exacerbate Pulmonary Injury in Influenza A Virus Infected Mice. Southeastern Regional Chapter of Society of Toxicology, University of Florida, Gainesville, Florida, October 25-26, 2018.
29. S. Humes, S. Robinson, N. Madani, H. Chen, K. Kroll, N. Denslow, T. Sabo-Attwood. Exposure to 1-Bromopropane Alters Gait by Causing Symptoms of Hind Limb Paralysis in Rats, Southeastern Regional Chapter of Society of Toxicology, University

of Florida, Gainesville, Florida, October 25-26, 2018.

30. T. Tilly, R. Ward, J. Luthra, S. Robinson, A. Eiguren- Fernandez, S. Hussain, T. Sabo-Attwood, J. Lednicky, C. Wu. Optimization of DAVID Cell Exposure System for Toxicity Analysis of Nanoparticles at the Air-Liquid Interface. International Aerosol Conference, Sept 2018.
31. R. Ward, T. Tilly, S. Robinson, A. Eiguren-Fernandez, T. Sabo-Attwood, J. Lednicky, C. Wu. Reducing Toxicity of Welding Fume Particles by Amorphous Silica Encapsulation. International Aerosol Conference, Sept 2018.
32. S. Humes, H. Chen, J. Lednicky, T. Sabo-Attwood. Impact of Emerging Contaminants, Specifically Carbon Nanotubes, on Host Lipid Metabolism and Immune Responses Following Influenza A Virus Infection, Public Health and Health Professions Research Day, University of Florida, Gainesville, Florida, April 6, 2018.
33. S. Humes, H. Chen, J. Lednicky, V. Dang, N. Denslow, T. Sabo-Attwood. Impacts of Single-Walled Carbon Nanotubes on Host Lipid Metabolism and Immune Responses Following Influenza A Virus Infection, Society of Toxicology Annual Meeting, San Antonio, Texas, March 11-15, 2018.
34. S. Humes, H. Chen, J. Lednicky, T. Sabo-Attwood. Impacts of Single-Walled Carbon Nanotubes on Host Lipid Metabolism and Its Role in Immune Responses Following Influenza A Virus Infection, Emerging Pathogens Institute Research Day, University of Florida, Gainesville, Florida, February 15, 2018.