Kylie D. Rock, Ph.D.

Clemson University, Department of Biological Sciences 230 Parkway Drive, 134 Long Hall, Clemson, SC 29634

Phone: (518) 578-7113

rock5@clemson.edu NCBI Bibliography Lab Website

Research Interests

I am a toxicologist with diverse training and expertise in both reproductive and ecotoxicology. My lab seeks to identify molecular, cellular, and physiological changes associated with environmentally relevant chemical exposures, prioritizing translational and comparative study designs to (1) conduct high-impact science with relevance to human reproductive health and (2) assess consequences, responses, and actions at the human, animal, and ecosystem interfaces to address environmental health issues.

Education

Doctorate, North Carolina State University

2019

Department: Biological Sciences Laboratory: Dr. Heather Patisaul

Degree: Toxicology

Dissertation: Sex-specific Effects of Firemaster® 550 on Placenta, Brain Development, and Behavior

Bachelor of Science, St. Lawrence University

2012

Department: Biology

Laboratory: Dr. Alexander Schreiber and Dr. Marilyn Mayer

Concentration: Biology, minor in Chemistry

Honors Thesis: Methylmercury Uptake and Distribution in Metamorphosing Xenopus laevis Tadpoles

Fed a Swordfish Diet

Relevant Experience

Assistant Professor, Clemson University

2023 - Present

Department: Biological Sciences

Affiliations: Environmental Toxicology Program, Center for Human Genetics

Postdoctoral Researcher, North Carolina State University

2021 - 2023

Department: Biological Sciences Laboratory: Dr. Scott Belcher

Affiliations: Center for Environmental and Health Effects of PFAS, Center for Human Health

and the Environment

Postdoctoral Researcher, University of Maryland School of Medicine

2019 - 2021

Department: Pharmacology Laboratory: Dr. Tracy Bale

Affiliations: Center for Epigenetic Research in Child Health and Brain Development

Graduate Research Assistant, North Carolina State University

2014 - 2019

Department: Biological Sciences Laboratory: Dr. Heather Patisaul

Laboratory Technician, Duke University

2012 - 2014

Department: Nicholas School of the Environment

Laboratory: Dr. Heather Stapleton

Fellowships and Grants

Completed

1F31ES029000-01 (NRSA)

01/22/18 - 08/13/19

Effects of prenatal Firemaster 550 exposure on placental gene expression and serotonergic innervation in the developing forebrain

serotoriergic inflervation in the developing for

Source: NIH/NIEHS

Role: PI (Training Fellowship)

Direct Costs: N/A NRSA Pre-Doctoral Fellowship

Active

2017346 01/31/24 – 9/30/25

Does Anthropogenic Contamination of Estuaries Impact Bioaccumulation in Seasonally

Resident Versus Transient Elasmobranchs?

Source: Save Our Seas Foundation

Role: PI

Direct Costs: \$10,000

Prisma Health Education and Research Seed Grant

01/01/2025 - 12/31/2025

Unraveling the Impact of Fetal Sex on Expression and Activity of Xenobiotic Transporters at the Blood-Placenta Barrier

Source: PHERI Seed Grant Program

Role: PI

Direct Cost: \$20,000

Clemson University School of Health Research Faculty Fellowship

09/22/2025 - 08/31/2026

Sex-Specific Placental Transport Mechanisms: Implications for Antihypertensive Therapy in Pregnancy

Source: Clemson University of School Health Research

Role: Fellow (PI) Direct Cost: \$47,500

Pending

K01ES037359 07/01/2026 – 6/30/2029

Effects of Preconception Phthalate Exposure on Implantation and Placentation

Source: NIH/NIEHS

Role: PI

Direct Costs: \$462,933

R35GM162969 07/01/2026 – 6/30/2031

Modulation of ABC Transporters - What's Sex Got To Do With It?

Source: NIH/NIGMS

Role: PI

Direct Costs: \$1,312,420

R21ES037883 07/01/2026 – 06/30/2028

Probing the Direct Effects of Endocrine Disrupting Chemicals on the Vaginal Microenvironment

Source: NIH/NIEHS

Role: Co-I

Direct Costs: \$93,431

TBD 08/01/2025 – 07/30/2026

Probing the Direct Effects of Endocrine Disrupting Chemicals on the Vaginal Microenvironment

Source: American Liver Foundation

Role: PI

Direct Costs: \$50,000

R03ES038067 04/01/2026 - 03/31/2028

Disrupting the Flow – Mechanisms of Phthalate Hepatotoxicity via the Liver-Ovarian Axis

Source: NIH/NIEHS

Role: PI

Direct Costs: \$100,000

2543136 07/01/2026 – 6/30/2031

CAREER: Microbial Blueprints for a Changing Coast – Linking Estuarine Community Function to Ecosystem Stability

Source: NSF Role: PI

Direct Costs: \$1,116,144

Honors and Awards	
Clemson University College of Science Excellence in Community Outreach Award	2025
Clemson University/Prisma Health NIH Accelerator Program	2023
NIEHS Extramural Paper of the Month (DOI: 10.1021/acs.est.3c01146)	2023
NC State Strengthening the Impact of Research Scholar	2022
2 nd Place Poster Endocrine Disrupting Chemicals – North Carolina Annual Meeting	2022
2 nd Place Poster North Carolina Chapter of the Society of Toxicology	2022
University of Maryland Postdoctoral Professional Development Award	2021
1 st Place Poster Reproductive and Developmental Toxicology Specialty Section Society of Toxicology	2019
3 rd Place Poster Life Sciences Graduate Research Symposium North Carolina State University	2019
North Carolina State University Graduate Student Association Travel Assistance Award	2018
1st Place Poster Inaugural Endocrine Disrupting Chemicals – North Carolina Annual Meeting	2018
Preparing the Professoriate Fellowship	2017 – 2018
W.M. Keck Center for Behavioral Neuroscience Travel Award	2017
Phi Beta Kappa	2012
Augsbury North Country Scholarship	2008 – 2012
Daniel F. '65 and Ann H. Sullivan St. Lawrence University Summer Research Fellowship	2010
Publications	

ORCID ID: 0000-0003-2954-1110

First Author *starting from most recent

- Rock KD, Bhoothapuri S, Lassiter E, Belcher SM. Variability of Mercury Concentrations Across Species, Brand, and Tissue Type in Processed Commercial Seafood Products. *Toxics*. 2025. doi.org/10.3390/toxics13060426.
 *Corresponding author
- 2. **Rock KD**, Folts L, Zierden HC, Marx-Rattner R, Leu A, et al. Developmental Transcriptomic Patterns can be Altered by Transgenic Overexpression of Uty. *Scientific Reports*. 2023. doi.org/10.1038/s41598-023-47977-x.
- 3. Rock KD, Polera ME, Guillette TC, McCord J, Dean K, et al. Companion Animals as Sentinels of Per- and Polyfluoroalkyl Substance (PFAS) Exposure and Associated Health Biomarkers in Gray's Creek North Carolina. *Environmental Science and Technology*. 2023. doi.org/10.1021/acs.est.3c01146. *[NIEHS Extramural Paper of the Month]*
- 4. **Rock KD**, St Armour G, Horman B, Phillips A, Ruis M, et al. Effects of Prenatal Exposure to a Mixture of Organophosphate Flame Retardants on Placental Gene Expression and Serotonergic Innervation in the Developing Forebrain. *Toxicological Sciences*. 2020. doi.org/10.1093/toxsci/kfaa046.
- 5. **Rock KD**, Gillera SE, Devarasetty P, Horman B, Birnbaum LS, et al. Sex-specific Behavioral Effects of Developmental Exposure to Tetrabromobisphenol A (TBBPA) in Wistar Rats. *Neurotoxicology*. 2019. doi.org/10.1016/j.neuro.2019.09.003.
- 6. **Rock KD**, Patisaul H. Environmental Mechanisms of Neurodevelopmental Toxicity. *Current Environmental Health Reports*. 2018. doi.org/10.1007/s40572-018-0185-0.
- 7. **Rock KD**, Horman B, Phillips A, McRitchie S, Watson S, et al. Molecular Effects of Developmental Firemaster® 550 Exposure in Wistar Rat Placenta and Fetal Forebrain. *Endocrine Connections*. 2018. doi.org/10.1530/EC-17-0373. *[NIEHS Extramural Paper of the Month]*
- 8. **Baldwin KR**, Phillips A, Horman B, Arambula S, Rebuli M, et al. Sex Specific Placental Accumulation and Behavioral Effects of Developmental Firemaster® 550 Exposure in Wistar Rats. *Scientific Reports*. 2017. doi.org/10.1530/EC-17-0373.

Co-Author *starting from most recent

- 1. Bangma J, Pu S, Robuck A, Boettger J, Guillette T, McCord J, **Rock KD**, et al. Combined Screening and Retroactive Data Mining for Emerging Perfluoroethers in Wildlife and Pets in the Cape Fear Region of North Carolina. *Chemosphere*. 2024. doi.org/10.1016/j.chemosphere. 2024.142898.
- 2. Starnes HM, Jackson TW, **Rock KD**, Belcher SM. Quantitative Cross-Species Comparison of Serum Albumin Binding of Per- and Polyfluoroalkyl Substances from Five Structural Classes. *Toxicological Sciences*. 2024. doi.org/10.1093/toxsci/kfae028.
- 3. Zierden HC, Marx-Rattner R, **Rock KD**, Montgomery KR, Anastasiadis P, et al. Extracellular Vesicles are Dynamic Regulators of Maternal Glucose Homeostasis During Pregnancy. **Scientific Reports**. 2023. doi.org/10.1038/s41598-023-31425-x.
- Newell AJ, Kapps VA, Cai Y, Rai MR, St. Armour G, Horman BM, Rock KD, et al. Maternal Organophosphate Flame Retardant Exposure Alters the Developing Mesencephalic Dopamine System in Fetal Rat. *Toxicological Sciences*. 2023. doi.org/10.1093/toxsci/kfac137.
- 5. Belcher SM, Guillette MP, Robb F, Rock KD. Comparative Assessment of Blood Mercury in American Alligators

- (Alligator mississippiensis) from Coastal North Carolina and Florida. *Ecotoxicology*. 2022. doi.org/10.1007/s10646-022-02573-z.
- 6. Starnes HM, **Rock KD**, Jackson TW, Belcher SM. A Critical Review and Meta-Analysis of Impacts of Per- and Polyfluorinated Substances on the Brain and Behavior. *Frontiers in Toxicology*. 2022. doi.org/10.3389/ftox.2022.881584.
- 7. Jašarević E, Hill EM, Kane PJ, Rutt L, Gyles T, Folts L, **Rock KD**, et al. Colonization at Birth with Human CST IV Cervicovaginal Microbiota Alters Development and Increases Neonatal Mortality in Mice. *Nature Communications*. 2021. doi.org/10.1038/s41467-021-26634-9.
- Macari S, Rock KD, Santos MS, Lima VTM, Szawka RE, et al. Developmental Exposure to the Flame Retardant Mixture Firemaster 550 Compromises Adult Bone Integrity in Male but not Female Rats. *International Journal of Molecular Sciences*. 2020. doi.org/10.3390/ijms21072553.
- 9. Jackson TW, Bendfeldt GA, Beam KA, **Rock KD**, Belcher SM. Heterozygous mutation of Sonic Hedgehog receptor (Ptch) drives cerebellar overgrowth and sex-specifically alters activity and social behavior in female mice. *Neurotoxicology and Teratology*. 2020. doi.org/10.1016/j.ntt.2020.106866.
- 10. Arumugasaamy N, **Rock KD**, Kuo C, Bale TL, Fisher JP. Microphysiological Systems of the Placental Barrier. *Advanced Drug Delivery Reviews*. 2020. doi.org/10.1016/j.addr.2020.08.010.
- 11. Ruis M, **Rock KD**, Hall S, Horman B, Patisaul H, et al. PBDEs Concentrate in the Fetal Portion of the Placenta: Implications for Thyroid Hormone Dysregulation. *Endocrinology*. 2019. doi.org/10.1210/en.2019-00463.
- 12. Bagley M, Ekelöf M, **Rock KD**, Patisaul H, Muddiman D. IR-MALDESI Mass Spectrometry Imaging of Underivatized Neurotransmitters in Brain Tissue of Rats Exposed to Tetrabromobisphenol A (TBBPA). *Analytical and Bioanalytical Chemistry*. 2018. doi.org/10.1007/s00216-018-1420-0.
- 13. Phillips A, Chen A, **Rock KD**, Horman B, Patisaul H, et al. Transplacental and Lactational Transfer of Firemaster® 550 Components in Dosed Wistar Rats. *Toxicological Sciences*. 2016. doi.org/10.1093/toxsci/kfw122.
- 14. Macaulay L, Chen A, **Rock KD**, Dishaw L, Dong W, et al. Developmental toxicity of the PBDE metabolite 6-OH-BDE-47 in zebrafish and the potential role of thyroid receptor *β*. *Aquatic Toxicology*. 2015. doi.org/10.1016/j.aquatox.2015.09.007.

Encyclopedia Chapter

1. **Rock KD**, Starnes HM, Belcher SM. Reproductive Toxicology, Female. *Encyclopedia of Toxicology*, 4th Edition, Vol 8, 167 - 202. 2024.

Pending

- Afghah, M., Elkins, A. C., Powell, P. C., Mulligan, M. E., Boland, M. C., Suggs, A. P., Walker, M. A., Padgett, Z. J., & Rock, K. D. (2025). Exploratory Assessment of Preconception Phthalate Exposure on Fertility and Offspring Health in Mice. bioRxiv, 2025.08.25.671855. doi.org/10.1101/2025.08.25.671855 *Senior author
- 2. **Rock KD**, Zierden HC, Herb BR, Folts LM, Zhao Q, et al. The Placenta Serves as a Major Barrier to Fetal Corticosterone Exposure and is Susceptible to Cell-Type-Specific Transcriptomic Disruption in Response to Early Prenatal Stress in Mice. *In Review*.
- 3. Padgett ZJ, Powell PC, **Rock KD**. A Review of PFAS Contamination and Microbial Dynamics in Estuarine Environments. *In Preparation*. *Senior author
- 4. Elkins A, Suggs A, **Rock KD**. The Hepato-Ovary Axis: Bidirectional Interactions Between the Liver and Ovary. *In Preparation*. *Senior author

Presentations & Meetings *Poster presentations not included, but amount to 20+ national and international posters presented	
Society of Toxicology Annual Meeting Platform Presentation Title: Sexually Dimorphic Placental and Neuroendocrine Responses to Prenatal and Preconception Exposures	2025
University of Florida Lou Guillette Jr. Memorial Symposium Title: Shaping Careers in One Health and EDCs: A Transgenerational Impact	2025
Clemson University Biophysics Seminar Series Title: Blood-Placenta Barrier Permeability: What's Sex Got To Do With It?	2024
Clemson University Center for Human Genetics Advances in Human Genetics Seminar Title: Unraveling the Impact of Fetal Sex on Expression and Activity of Xenobiotic Transporters at the Blood-Placenta Barrier	2024
USEPA Emerging Topics Seminar	2022

Title: One Health Case Studies: PFAS. Pine Trees. Pets. and Predators

Gordon Research Conference – Environmental Endocrine Disruptors Title: One Health Case Studies: PFAS, Pine Trees, Pets, and Predators Society of Toxicology Annual Meeting Platform Presentation Title: PFAS Exposure is Associated with Autoimmunity in the American Alligator Virtual Placenta-Interface Seminar Series Title: Defining the Molecular Mechanisms by which Stress Alters Placental Function and Fetal Brain Development Neuroscience Trainee Seminar Series Title: The Placenta: A Novel Target of Sex-specific Neuroendocrine Disruption Gordon Research Seminar – Environmental Endocrine Disruptors Title: The Placenta: A Potential Target of Neuroendocrine Disruption by the Flame Retardant Mixture Firemaster® 550 The United States Society for Developmental Origins of Health and Disease Title: Sex-Specific Placental Accumulation of Mixture FM550® and Sex-Specific Disruption of the Placental and Fetal Forebrain Transcriptome in the Wistar Rat North Carolina Museum of Natural Sciences Title: Neurodevelopment: What's the placenta got to do with it? North Carolina State University Toxicology Program Seminar Title: The Placenta as a Potential Target of Neurotoxicity North Carolina State University E.M. Keck Center for Behavioral Biology Symposium Title: Firemaster® 550, Placenta, Brain and Behavior Festival of Science Title: Methylmercury Uptake and Distribution in Metamorphosing Xenopus laevis Tadpoles Fed a Swordfish Diet Teaching Mentoring Experience Teaching Instructor, Environmental Toxicology Reading Group (ETOX 8630) Clemson University Student Evaluations: TBD
Title: PFAS Exposure is Associated with Autoimmunity in the American Alligator Virtual Placenta-Interface Seminar Series Title: Defining the Molecular Mechanisms by which Stress Alters Placental Function and Fetal Brain Development Neuroscience Trainee Seminar Series Title: The Placenta: A Novel Target of Sex-specific Neuroendocrine Disruption Gordon Research Seminar – Environmental Endocrine Disruptors Title: The Placenta: A Potential Target of Neuroendocrine Disruption by the Flame Retardant Mixture Firemaster® 550 The United States Society for Developmental Origins of Health and Disease Title: Sex-Specific Placental Accumulation of Mixture FM550® and Sex-Specific Disruption of the Placental and Fetal Forebrain Transcriptome in the Wistar Rat North Carolina Museum of Natural Sciences Title: Neurodevelopment: What's the placenta got to do with it? North Carolina State University Toxicology Program Seminar Title: The Placenta as a Potential Target of Neurotoxicity North Carolina State University E.M. Keck Center for Behavioral Biology Symposium Title: Firemaster® 550, Placenta, Brain and Behavior Festival of Science Title: Methylmercury Uptake and Distribution in Metamorphosing Xenopus laevis Tadpoles Fed a Swordfish Diet Teaching & Mentoring Experience Teaching Instructor, Environmental Toxicology Reading Group (ETOX 8630) Clemson University Student Evaluations: TBD
Title: Defining the Molecular Mechanisms by which Stress Alters Placental Function and Fetal Brain Development Neuroscience Trainee Seminar Series Title: The Placenta: A Novel Target of Sex-specific Neuroendocrine Disruption Gordon Research Seminar – Environmental Endocrine Disruptors Title: The Placenta: A Potential Target of Neuroendocrine Disruption by the Flame Retardant Mixture Firemaster® 550 The United States Society for Developmental Origins of Health and Disease Title: Sex-Specific Placental Accumulation of Mixture FM550® and Sex-Specific Disruption of the Placental and Fetal Forebrain Transcriptome in the Wistar Rat North Carolina Museum of Natural Sciences Title: Neurodevelopment: What's the placenta got to do with it? North Carolina State University Toxicology Program Seminar Title: The Placenta as a Potential Target of Neurotoxicity North Carolina State University E.M. Keck Center for Behavioral Biology Symposium 2017 Title: Firemaster® 550, Placenta, Brain and Behavior Festival of Science Title: Methylmercury Uptake and Distribution in Metamorphosing Xenopus laevis Tadpoles Fed a Swordfish Diet Teaching Instructor, Environmental Toxicology Reading Group (ETOX 8630) Clemson University Student Evaluations: TBD
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Teaching Instructor, Environmental Toxicology Reading Group (ETOX 8630) Clemson University Student Evaluations: TBD
Teaching Instructor, Environmental Toxicology Reading Group (ETOX 8630) Clemson University Student Evaluations: TBD
Instructor, Cell Biology (BIOL 4610) 2024
Clemson University Student Evaluations: 4.30/5.0
Instructor, Senior Seminar: Developmental Origins of Health and Disease (BIOL 4930) Clemson University
Student Evaluations: 4.76/5.0
Instructor, Cellular Biology (BIO 414) North Carolina State University 2022
Instructor, Cellular Biology (BIO 414)
Instructor, Cellular Biology (BIO 414) North Carolina State University Guest Lecturer, Neurobiology (BIO 488) 2022
Instructor, Cellular Biology (BIO 414) North Carolina State University Guest Lecturer, Neurobiology (BIO 488) North Carolina State University Guest Lecturer, Intro. Cellular and Molecular Biology (BIO 183) 2018
Instructor, Cellular Biology (BIO 414) North Carolina State University Guest Lecturer, Neurobiology (BIO 488) North Carolina State University Guest Lecturer, Intro. Cellular and Molecular Biology (BIO 183) North Carolina State University Instructor, Intro. Cellular and Molecular Biology Lab (BIO 183) 2016 – 2017
Instructor, Cellular Biology (BIO 414) North Carolina State University Guest Lecturer, Neurobiology (BIO 488) North Carolina State University Guest Lecturer, Intro. Cellular and Molecular Biology (BIO 183) North Carolina State University Instructor, Intro. Cellular and Molecular Biology Lab (BIO 183) North Carolina State University Instructor, General Chemistry Lab (CHEM 103 & 104) 2010 – 2011

Maryam Afghah, M.S. Melissa Walker Zachary Padgett Hannah Starnes, Ph.D. Zachary McLean, M.S. Nickole Moon, Ph.D. Kristen Montgomery,Ph.D William Marinello, Ph.D. Sagi Gillera, Ph.D. Thomas Jackson, Ph.D.	Ph.D. Student in my lab at Clemson University M.S. Student in my lab at Clemson University M.S. Student in my lab at Clemson University Senior Toxicologist, ICF Business and Consulting Services Ph.D. Student, North Carolina State University M.D./Ph.D. Student, University of Colorado Anschutz Postdoctoral Researcher, University of Calgary Postdoctoral Researcher, UNC Chapel Hill Senior Toxicologist, ICF Business and Consulting Services Postdoctoral Biologist, US Environmental Protection Agency	2024 - Present 2024 - Present 2023 - Present 2021 - 2023 2021 - 2023 2019 - 2021 2019 - 2021 2018 - 2019 2017 - 2019
Post-undergraduate Rese Paige Powell Mary Boland	archers: Lab Technician in my lab at Clemson University Medical Scribe at Prisma Health	2023 – Present 2023 – 2025
Undergraduate Students: Romina Dotson Matt Heselton Elizabeth Mulligan Sydney Schinkai Chloe Schmidt Kylie Artosky Alexandra Suggs Shriya Boothapuri Sydney Wright Emmanuel Lassiter Annabelle Frantz Pavan Devarasetty, M.D. Jamal Moss, M.D. Annabelle Rivera, M.S. Meredyth Daniel, D.O. Emily Cox, D.O.	Undergraduate Researcher in my lab at Clemson University M.D. Student, Medical University of South Carolina DVM Student, Mississippi State University Student, Wake Tech Community College DPT Student, Duke University Resident Physician, Duke University Hospital Family Medicine Resident, University of Pennsylvania Medical Technician, Duke University McLeod Health Cheraw UNC Institute for Healthcare Quality Improvement	2025 - Present 2025 - Present 2024 - Present 2024 - Present 2024 - Present 2024 - Present 2024 - Present 2022 - 2023 2022 - 2023 2022 - 2023 2016 - 2019 2016 - 2019 2015 - 2017 2015 - 2017 2015 - 2017 2014 - 2015
Service & Engagement Society & Conference So	ervice	
Carolina Society of Enviro Board Member	nmental Toxicology and Chemistry	2025 – Present
Reproductive and Develop Junior Councilor	omental Toxicology Specialty Section of the Society of Toxicology	2025 – Present
Southeastern Regional Cherical President-Elect	napter of the Society of Toxicology	2024 – 2025
Reproductive and Develop Postdoctoral Representation	omental Toxicology Specialty Section of the Society of Toxicology ive	2023 – 2025
North Carolina Chapter of Postdoctoral Representati	· · · · · · · · · · · · · · · · · · ·	2022 – 2024
Gordon Research Confere Program Committee	ence – Environmental Endocrine Disruptors	2019 – 2022
Gordon Research Semina Chair	r – Environmental Endocrine Disruptors	2018 – 2022
Triangle Chapter of the So Outreach Chair	ociety for Neuroscience	2018 – 2019
	rofessor Search Committee Sciences and Eukaryotic Pathogen Innovation Center (EPIC)	2024 - Present

Kylle Rock, CV	
Seminar Committee Member Department of Biological Sciences	2024 - Present
Graduate Student Committee Member (6 students not in my lab) Department of Biological Sciences and Environmental Toxicology Program	2024 - Present
Reviewer Grants:	
Early Career Reviewer, Center for Scientific Review, National Institutes of Health	2024 – Present
National Science Foundation Graduate Research Fellowship Program	2023 - Present
Journals (ad hoc): Environmental Health Perspectives, Frontiers in Endocrinology, Frontiers in Toxicology, Critical Fenvironmental Science and Pollution Research, Global Ecology and Conservation	Reviews in Toxicology,
Outreach Clemson Science Outreach Center Tiger Talks Title: From Microbes to Mammals: The Far-Reaching Impact of Pollution	2025
Clemson Rural Health Educational Materials – Partnered with the Clemson Rural Health program to create educational pamphlets and videos that can be shared with patients from underserved communities as a rest to learn more about hormones, endocrine disruptors, and health outcomes. *See lab website Outreach particle of the Project: https://www.youtube.com/watch?v=Vfeiw5AebGl&t=4s	ource
Meet the Professor Summer Camp, Littlejohn Community Center Instructor – Designed and executed an interactive laboratory experience for local students aged learn about how chemicals can impact physiology and behavior. *See lab website Outreach page	2024 d 5 – 17 to
Brain Awareness Night North Carolina Museum of Natural Sciences Booth Host – Designed interactive materials for community members to learn about the diversity and behavior across species.	2023 ty of brains
Big10 Neuroscience Virtual Seminar Series Organizer – Helped to recruit speakers and coordinate seminars.	2021
Center for Epigenetic Research in Child Health and Brain Development Reading in the Brain Volunteer – Aided in the execution of a neuroscience educational program with local school kids	2019 – 2021 ′s.
Brain Awareness Night North Carolina Museum of Natural Sciences Booth Host – Designed interactive materials for community members to learn about hormones, disruptors, brain, and behavior.	2019 endocrine
UNC Science Expo Volunteer – Aided in executing interactive activities for community members to learn about neur	2018 roscience.
Neuroscience Trivia hosted by Triangle Chapter of Society for Neuroscience Event Coordinator – Helped to plan and execute a local trivia event for a regional neuroscience	2018 society.

Professional Memberships Society of Toxicology

Society of Toxicology: Women in Toxicology Society of Toxicology: Southeastern Chapter

Society of Toxicology: Reproductive and Developmental Toxicology Specialty Section

Society for Reproductive Investigation

Society of Environmental Toxicology & Chemistry

Carolinas Society of Environmental Toxicology & Chemistry

American Elasmobranch Society