

SHORT PROGRAM

South Central Chapter SOT

South Central Chapter 2026 Fall Meeting

"From Bench to Breath: Bridging the Gap in Respiratory Toxicology"

Thursday October 22nd, 2026 (evening)

&

Friday, October 23rd, 2026

**Louisiana State University
School of Veterinary Medicine, Baton Rouge, LA 70803**



SOT | Society of
Toxicology

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**2026 SOT SCC Regional Chapter Meeting
October 22nd and 23rd, 2026.
Louisiana State University, School of Veterinary Medicine,
1909 Skip Bertman Dr, Baton Rouge, LA, 70803.
LSU Vet Med Room 1205**

“From Bench to Breath: Bridging the Gap in Air Pollution Toxicology”

AGENDA

Thursday, October 22nd, 2026 – LSU Vet Med Cafeteria and indoor courtyard.

5 PM – **Registration – Near cafeteria**

6–7 PM – Reception and SOT SCC Mixer – Faculty, postdocs, students, and research staff.

Friday, October 23rd, 2026 - LSU Vet Med Room 1205

8 AM – **Registration & Breakfast**

8:30–8:45 AM **Welcome remarks** from the Organizing Committee and SOT SCC President.

8:45–9:30 AM **Keynote lecture** – “*What happens inside the body after firefighters leave the flames?*”
Dr. Stephania Cormier, Associate Vice-Chair LSU Office of Research, Wiener Chair and
Professor, Biological Sciences, Director LSU Superfund Research Program.

9:30–9:40 AM Q & A.

Student presentations: 10 min + 2 min Q&A

9:40–9:52 AM Georrein Dupre, PFOS, lung-cell bioenergetics, and cellular stress, Southern University

9:52–10:04 AM Anusha Zaman, Prenatal e-cigarette aerosol exposure, LSU Baton Rouge

10:04–10:16 AM Angel Casillo, Developmental BPA exposure and neurobehavior, LSU Baton Rouge

10:16–10:28 AM Lauren Eagon, Thyroid receptor disruption across fish species, LSU Baton Rouge

10:28–10:40 AM Caroline Holmes, Can Avian Data be Used to Predict the Sensitivity of Reptiles to Dioxins?
LSU Baton Rouge

10:40–10:52 AM Wesley Roller, Mitochondrial protein modifications, UA Little Rock / UAMS

10:52–11:10 AM Morning coffee break

Student/Postdoc presentations: 10 min + 2 min Q&A

11:10–11:22 AM Nicole Akers, Nanoparticle coatings for vascular devices, LSU Baton Rouge

11:22–11:34 AM Logan Harden, Low-cost air monitoring, University of Mississippi

11:34–11:46 AM	Melanie Wilson, Noradrenergic signaling and lead-induced stress responses, LSU Baton Rouge
11:46–11:58 PM	Jiyu Li, Environmental toxicants and viral disease, LSU Health Shreveport
11:58–12:10 PM	Shilpa Thota, Particulate-induced oxidative stress in lung organoids, LSU Baton Rouge
12:10–12:55 PM	Lunch Break - LSU Vet Med Room 1205
12:55–1:55 PM	Poster presentations
1:55–2:45 PM	Career Development Panel – “Partnering with communities: Research, Resilience, and (Out)Reach - Communicating Research Findings Locally” - Dr. Kristine Willett – Professor of Pharmacology & Environmental Toxicology in BioMolecular Sciences and Research Professor in the Research Institute of Pharmaceutical Sciences at The University of Mississippi. - Dr. Caasy Thomas-Porch – College of Agricultural, Human, and Environmental Sciences, Southern University and A & M College.
2:45–3:00 PM	Awards ceremony and closing remarks

Keynote lecture

“What happens inside the body after firefighters leave the flames?”

Dr. Stephania Cormier, Associate Vice-Chair LSU Office of Research, Wiener Chair and Professor, Biological Sciences, Director LSU Superfund Research Program, honorary professor of child health at the University of Queensland in Australia.

<https://www.lsu.edu/mediacenter/news/2023/11/21oredavps.php>



“Born and raised in Louisiana, Dr. Cormier received her honor’s baccalaureate from the University of Louisiana at Lafayette and her PhD in biochemistry and molecular biology from LSU Health New Orleans. Her research focus is on environmental causes for the dramatic rise in inflammatory respiratory diseases, including asthma. She is well-known for her work with infants and children to understand how they respond differently to pollution, allergens and respiratory viruses compared to adults. Dr. Cormier serves as chair for the Pacific Basin Consortium, which coordinates cooperative research across the globe to solve the most pressing environmental and health issues of our time. She is also president of the Society of Experimental Biology and Medicine, a non-profit society founded in 1903 to promote biomedical research by facilitating exchange of scientific information across disciplines.

Over the past 12 years, Cormier has brought more than \$26 million in federal research funding to LSU and Louisiana.

At LSU, she leads the Superfund Research Program, funded through the National Institutes of Health, to lessen the environmental health effects of hazardous waste exposure on communities in Louisiana and across the globe.”

Career Development Panel

“Partnering with communities: Research, Resilience, and (Out)Reach – Communicating Research Findings Locally”

Dr. Kristine Willett – Professor of Pharmacology & Environmental Toxicology in BioMolecular Sciences and Research Professor in the Research Institute of Pharmaceutical Sciences at The University of Mississippi.



Dr. Caasy Thomas-Porch – College of Agricultural, Human, and Environmental Sciences, Southern University and A & M College.



Student and Postdoc platform presentations

1. Georrein Dupre: PFOS drives bioenergetic reprogramming and cellular stress in lung epithelial cells.

Authors and Affiliations: G. Dupre, R. Kondati, M. Thakur, S. Salukuti, A. Amoliga and S. Batra. Laboratory of Pulmonary Immunotoxicology, Department of Environmental Toxicology, College of Agricultural, Human and Environmental Sciences. Southern University and A&M College, Baton Rouge, LA 70813.

2. Anusha Zaman: Prenatal exposure to electronic nicotine delivery system (ENDS) aerosol components epigenetically alters copper (Cu) metabolism at the maternal-fetal interface.

Authors and Affiliations: Anusha Zaman¹, Torrie Cook¹, Matthew Schexnayder², Rui Xiao³, Shilpa Thota¹, and Alexandra Noël¹. ¹Comparative Biomedical Sciences, Louisiana State University School of Veterinary Medicine, Baton Rouge, LA; ²IDEXX Laboratories, Inc., Westbrook, ME; ³Amazon, Seattle, WA.

3. Angel Casillo: Developmental Bisphenol A exposure disrupts sensorimotor behavior and stress-response signaling in larval zebrafish.

Authors and Affiliations: Angel Casillo and Ahmed Abdelmoneim. Department of Comparative Biomedical Sciences, School of Veterinary Medicine, Louisiana State University, Baton Rouge, LA 70803, USA.

4. Lauren Eagon: Cross-species differences in sensitivity to disruption of the thyroid hormone receptor among fishes.

Authors and Affiliations: Lauren Eagon, Vann Boyte, Cameron Collins, Jon Doering. Louisiana State University, Department of Environmental Sciences.

5. Caroline Holmes: Can avian data be used to predict the sensitivity of reptiles to dioxins?

Authors and Affiliations: Caroline Holmes (a), Cameron Collins (a), Justin Dubiel (b), Steve Wiseman (b), and Jon Doering (a). a. Louisiana State University. b. University of Lethbridge.

6. Wesley Roller: Candidate advanced glycation- and lipid peroxidation-derived protein modifications in mitochondrial respiratory complexes: a proteomic and structural analysis.

Authors and Affiliations: Wesley Roller, University of Arkansas at Little Rock. Jose A. Ochoa, University of Arkansas for Medical Sciences. Gunnar Boysen, University of Arkansas for Medical Sciences.

7. Nicole Akers: Harnessing polyphenolic lignin-based nanoparticles to develop thromboresistant endovascular device coatings.

Authors and Affiliations: Nicole M. Akers¹, M. Ryan Smith², Carlos Astete⁴, Seetharama D. Jois³, Christina Sabliov⁴, and Tammy R. Dugas¹. ¹Department of Comparative Biomedical Sciences, ²Department of Veterinary Clinical Sciences, and ³Department of Pathobiological Sciences, Louisiana State University School of Veterinary Medicine; ⁴Department of Biological and Agricultural Engineering, Louisiana State University Agricultural Center, Baton Rouge, Louisiana.

8. Logan Harden: Testing a low-cost air monitor for use in rural Mississippi.

Authors and Affiliations: Logan Harden¹, Courtney Roper¹. ¹Department of BioMolecular Sciences, University of Mississippi, University, MS 38677.

9. Melanie Wilson: Pharmacological modulation of noradrenergic signaling alters lead-induced stress responses in larval zebrafish (danio rerio).

Authors and Affiliations: M. Wilson, A. Abdelmoneim, Department of Comparative Biomedical Sciences, School of Veterinary Medicine, Louisiana State University, Baton Rouge, Louisiana.

10. JiYu Li: Environmental toxicants exacerbate SARS-CoV-2-induced pulmonary and neurological pathology through genotoxic stress.

Authors and Affiliations: J. Li¹, X. Tian¹, H. Zhang¹, A. Yurochko¹, J. Papin², and X. Lu¹.

¹LSU Health Shreveport, Shreveport, LA; ²The University of Oklahoma College of Medicine, Oklahoma City, OK.

11. Shilpa Thota: Oxidative stress responses induced by particulate matter containing environmentally persistent free radicals are attenuated by N-acetyl cysteine in an air-liquid interface lung organoid model.

Authors and Affiliations: Shilpa Thota, Zakia Parveen, and Alexandra Noël. Comparative Biomedical Sciences, Louisiana State University, Baton Rouge, LA.

Student, Postdoc and Research Scientist poster presentations

Theme 1: Pulmonary, Inhalation and Cardiopulmonary effects

Poster Board #1 Russell Morales-Rubio: Exosomal miRNAs released by alveolar type II cells exposed to particulate matter containing environmentally persistent free radicals regulate nitric oxide release from microvascular endothelial cells.

Authors and Affiliations: Russell Morales-Rubio¹, Alexandra Noël¹, and Tammy R. Dugas¹.
¹Department of Comparative Biomedical Sciences, Louisiana State University School of Veterinary Medicine, Baton Rouge, Louisiana 70803, USA.

Poster Board #2 Andrew P Doherty: Male-enhanced pulmonary Th17 responses to EPFR exposure persist across dietary backgrounds.

Authors and Affiliations: Andrew P Doherty¹, Rashmi Pathak^{1,2}, Avinash Kumar^{1,2}, Ashley Ferrier^{1,2}, Stephania A Cormier^{1,2}. ¹Department of Biological Sciences, Louisiana State University, Baton Rouge, LA, USA. ²Pennington Biomedical Research Center, Baton Rouge, LA, USA.

Poster Board #3 Ugochi Emelogu: E-cigarette aerosol exposure exacerbates influenza induced respiratory outcomes in female mice.

Authors and Affiliations: U. Emelogu, T. Cook, T. Jelesijevic, and A. Noël. Department of Comparative Biomedical Sciences, Louisiana State University, Baton Rouge, LA.

Poster Board #4 Amos Amoliga: Diesel particulate extract induces inflammatory signaling and suppresses cellular bioenergetics in A549 lung epithelial cells.

Authors and Affiliations: A Amoliga, M. Thakur, R. Kondati, S. Batra. Laboratory of Pulmonary Immunotoxicology, Department of Environmental Toxicology, College of Agricultural, Human and Environmental Sciences, Southern University and A&M College, Baton Rouge, LA 70813.

Poster Board #5 Caiden Ingram: Improved lung function and reduced eosinophilia in IL-10 deficient female mouse offspring exposed *in utero* to e-cigarette aerosols and challenged with house-dust mite in adulthood.

Authors and Affiliations: C. Ingram¹, T. Cook¹, M. Schexnayder², Rui Xiao³, and A. Noël¹. ¹Department of Comparative Biomedical Sciences, Louisiana State University School of Veterinary Medicine, Baton Rouge, LA. ²IDEXX Laboratories, Inc., Westbrook, ME. ³Bristol Myers Squibb, Brisbane, CA.

Poster Board #6 Logan Moore: Differential cardiopulmonary transcriptional dysregulation induced by gas and particulate phases of wildfire smoke in mice.

Authors and Affiliations: Logan Moore¹, Bhawana Devkota¹, Zakia Perveen¹, Tomislav Jelesijevic¹, Rawad Saleh², and Alexandra Noël¹. ¹Louisiana State University, Baton Rouge, LA. ²University of Georgia, Athens, GA.

Poster Board #7 Zechariah Myles: Exposure to synthetic nicotine and particulate matter aerosols induces transcriptional remodeling and oxidative stress signatures in the lungs of male mice.

Authors and Affiliations: Zechariah Myles¹, Torrie Cook², Matthew Schexnayder³, Alexandra Noël². ¹Department of Environmental Toxicology, Southern University and A&M College. ²Department of Comparative Biomedical Sciences, School of Veterinary Medicine, Louisiana State University. ³IDEXX Laboratories, Inc. Westbrook, ME.

Theme 2: Developmental, Neuroendocrine, and Reproductive effects

Poster Board #8 Alexandra Buford: High-content imaging and automated analysis of glucocorticoid receptor signaling in larval zebrafish: a platform for environmental mental health research.

Authors and Affiliations: Buford A, McAtee D, Niaz K, Abdelmoneim A. Department of Comparative Biomedical Sciences, School of Veterinary Medicine, Louisiana State University, Baton Rouge, Louisiana.

Poster Board #9 Valentina Medina-Ardila: Developmental and long-term effects of Cannabidiol (CBD) exposure during a specific developmental window.

Authors and Affiliations: Valentina Medina-Ardila, Caitlyn M. Callahan, Madison K. Wilkin, Winnie Chen, Katherine A. Martin, Nicole M. Ashpole*, Kristine L. Willett. University of Mississippi, School of Pharmacy, Department of Biomolecular Sciences, Oxford, MS.

*Mississippi State University, College of Veterinary Medicine, Starkville, MS.

Theme 3: Ecotoxicology and Endocrine Disruption

Poster Board #10 Vann Boyte: *In vitro* assessment of thyroperoxidase inhibition by organic ultraviolet filters in red drum microsomes.

Authors and Affiliations: Vann Boyte, Dept. of Environmental Sciences, Louisiana State University, Baton Rouge, LA. Chris Lowrey-Dufour, Dept. of Environmental Sciences, Louisiana State University, Baton Rouge, LA. Lauren Eagon, Dept. of Environmental Sciences, Louisiana State University, Baton Rouge, LA. Jon Doering, Dept. of Environmental Sciences, Louisiana State University, Baton Rouge, LA.

Theme 4: Exposure Assessment and Experimental Methods

Poster Board #11 Mohamed Ali: HEPES buffering of zebrafish E3 medium: pH stability and implications for toxicological assessments.

Authors and Affiliations: Mohamed Ali, Asmau Abdulmalik, Melanie Wilson, Ahmed Abdelmoneim. Department of Comparative Biomedical Sciences, School of Veterinary Medicine, Louisiana State University, Baton Rouge, LA 70810, USA.

Poster Board #12 Torrie Cook: Development and characterization of a novel aerosol generator for inhalation toxicology studies.

Authors and Affiliations: Torrie Cook¹ and Alexandra Noël¹. ¹Department of Comparative Biomedical Sciences, Louisiana State University School of Veterinary Medicine, Baton Rouge, LA.

Theme 5: Molecular, Computational, and Mitochondrial Mechanisms

Poster Board #13 Oviya Thasu Susindran: Decoding the toxicodynamics of 4-Aminodiphenylamine: computational insights into molecular interactions, cellular signaling, and redox chemistry.

Authors and Affiliations: Oviya Thasu Susindran, Abubakar Abdulkadir, Adrianna Holivay, Jean Christopher Chamcheu, Raphyel Rosby, and Ekhtear Hossain. Department of Biological Sciences and Chemistry, Southern University and A&M College, Baton Rouge, Louisiana, USA.

Poster Board #14 Shreechandra Salukuti: 6PPD-Quinone alters polycomb-mediated epigenetic regulation and RNA granule dynamics in human airway epithelial cells.

Authors and Affiliations: S. Salukuti, M. Thakur, R. Kondati, and S. Batra. Laboratory of Pulmonary Immunotoxicology, Department of Environmental Toxicology, College of Agricultural, Human and Environmental Sciences, Southern University and A&M College, Baton Rouge, LA, 70813.

Theme 6: Skin Biology and Dermal Injury

Poster Board #15 Catalina Gaviria: Temporal activation of cell death pathways in a multicellular human skin equivalent exposed to Sulfur Mustard and Lewisite.

Authors and Affiliations: Catalina Gaviria, Sarfaraz Ahmad, Christel Anthony and Patrick McNutt. Wake Forest Institute for Regenerative Medicine, Wake Forest University School of Medicine, Winston Salem, NC 27101.

Poster Board #16 Aliaa Ismail: Pregnane X Receptor (PXR) signaling promotes cutaneous wound healing through coordinated reprogramming of fibroblast migration and inflammatory signaling.

Authors and Affiliations: Aliaa Ismail, Darian Young, and George Howell III. Department of Comparative Biomedical Sciences, College of Veterinary Medicine, Mississippi State University.

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