

2025 LOUISIANA LUNG CONFERENCE

Emerging Frontiers in Inhalation Toxicology and Pulmonary Infectious Diseases

April 29, 2025

Room 1205, LSU Vet Med

Agenda - Central Daylight Time (CDT)

- 8:00 to 8:30 p.m. **Breakfast**
- 8:30 to 8:45 a.m. **Oliver Garden, BVetMed, Ph.D., FHEA, FCCP, FRCVS, DACVIM, DECVIM-CA**, Dean, *Welcome and Opening Remarks*
- 8:45 to 9:30 a.m. **Matthew J Campen, Ph.D., MSPH.**, Distinguished Professor, University of New Mexico College of Pharmacy, Co-Director UNM Clinical and Translational Sciences Center, Director New Mexico Center for Metals in Biology and Medicine
Keynote 1: Flame On! Wildfire smoke inhalation and neuroinflammation
- 9:30 to 10:00 a.m. **Basel Abuaita, Ph.D.**, Project Investigator, LSU Vet Med
Regulation of pulmonary host defenses by the endoplasmic reticulum stress sensor IRE1 α .
- 10:00 to 10:30 a.m. **Chen Chen, Ph.D.**, Project Investigator, LSU College of Science
How S. aureus protein SSL11 inhibits neutrophil migration
- 10:30 to 10:45 a.m. **Coffee break**
- 10:45 to 11:15 a.m. **Mariano Carossino, D.V.M., Ph.D. Dipl. ACVM, Dipl. ACVP**, Project Investigator, LSU Vet Med
The role of adipocyte-driven inflammation and leptin pathway in pulmonary viral infections caused by SARS-CoV-2 and influenza A.
- 11:15 to 12:00 p.m. **Daniel Conklin, Ph.D.**, Editor in Chief, Cardiovascular Toxicology, Professor of Medicine Christina Lee Brown Envirome Institute, University of Louisville
Keynote 2: Volatile Organic Compounds (VOCs), Transient Receptor Potential Ankyrin-1 (TRPA1), and cardiopulmonary injury: Mechanisms and mysteries
- 12:00 to 12:20 p.m. **Naohiro Kato, Ph.D.**, Pilot Project applicant, LSU Biological Sciences
Oral delivery of fucoxanthinol to improve the target engagement for airway inflammation
- 12:20 to 1:15 p.m. **Lunch break and Networking (Lunch will be provided)**
- 1:15 to 1:35 p.m. **James Wise, Ph.D.**, Pilot Project Applicant, LSU AgCenter
Hexavalent chromium drives human lung carcinogenesis via lipid metabolic dysfunction
- 1:35 to 1:55 p.m. **Tianyi Zhang, Ph.D.**, Pilot Project Applicant, LSU Vet Med
Adjuvant-induced trained immunity against SARS-CoV-2 infection
- 1:55 to 2:15 p.m. **Sarah Voth, Ph.D.**, Pilot Project Applicant, Edward Via College of Osteopathic Medicine, University of Louisiana Monroe
Endothelial amyloids in acute Pseudomonas infection: Exoenzyme Y should we care?
- 2:15 to 3:00 p.m. **Rodney Rouse, DVM, MBA, Ph.D.**, Acting Director, Division of Applied Regulatory Science, U.S. Food and Drug Administration, Silver Spring, Maryland, United States
Keynote 3: Implementing the FDA's Novel Alternative Methods program, with a tribute to Dr. Arthur Penn
- 3:00 to 3:15 p.m. **Tammy Dugas, Ph.D.**, Director, Center for Lung Biology and Disease, Everett Besch Professor, Associate Dean for Research Graduate Education
Closing Remarks
- 3:30 to 5:30 p.m. **COBRE investigators meeting with the EAC (Closed Session)**

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