

Retreat, Rethink, Retool: Addiction Science in the Era of New Approach Methods

Organizing Committee: Michael Salling, PhD, Pamela Alonso, PhD, Hannah Kramer, BS

Morning Scientific Session HDC Room 130

- 8:30 - 9:00 Registration and Coffee
- 9:00 - 9:05 *Welcome Remarks & Moderator:*
Michael Salling, PhD, Assistant Professor, Department of Cell Biology and Anatomy, LSUHSC-NO
- 9:05 - 10:05 *Keynote Address*
Paul Slesinger, PhD, Lillian and Henry M. Stratton Professor of Neuroscience, Mount Sinai
A Molecular Approach to Finding Drugs to Treat Alcohol Use Disorder
- 10:05 - 10:25 **Coffee Break**
- 10:25 - 10:50 **Corey Rountree, PhD**, Head Scientist, 28Bio, New Orleans BioInnovation Center
Capturing Human Synaptic Plasticity In Vitro: Organoid Models of Memory and Learning
- 10:50 - 11:15 **Carmen Canavier, PhD**, Professor & Department Chair of Cell Biology and Anatomy
Computational Modeling of Distinct Subpopulations of Midbrain Dopamine Neurons
- 11:15 - 11:40 **Qi Cai, PhD**, Assistant Professor, LSU Department of Biological and Agricultural Engineering
Unlocking the Brain: Advanced Strategies for Controllable Blood-Brain Barrier Opening.
- 11:40 - 11:50 **ADACE Member Group Photo** – gather in the atrium at the exit of the auditorium

Lunch Featuring Trainee Presentations

11:40 - 12:00 Transition to HDC 335 & self-serve working lunch

- Moderator: **Hannah Kramer, BS**, Predoctoral Fellow, Department of Pharmacology, LSUHSC-NO
- 12:00 - 12:10 **Xavier R. Chapa-Dubocq, PhD**, Postdoctoral Fellow, Department of Physiology, LSUHSC-NO
Traumatic Brain Injury and Ethanol Exposure Differentially Disrupt Mitochondrial Function in the Retro Splenial Cortex
- 12:15 - 12:25 **Thomas Kylo, PhD**, Postdoctoral Fellow, Department of CBA & Physiology, LSUHSC-NO
Adolescent Alcohol Exposure Produces Long-term Hyperalgesia and Allodynia in Adult Male and Female Rats
- 12:30 - 12:40 **Meagan Donovan, BS**, PhD Candidate, Department of Physiology, LSUHSC-NO
Chronic-Plus-Binge Alcohol Exposure Promotes Vascular Stiffness and Diastolic Dysfunction in Aging Mice
- 12:45 - 12:55 **Lei'leh Itayem, BS**, MS Candidate, Bioinformatics and Computational Medicine Program, LSUHSC-NO
Proteomic Analysis of Cingulate Cortex Systems Regulated by Mifepristone in the Context of Alcohol Dependence

Afternoon Scientific Session

12:55 - 1:00 Transition to HDC Room 130

- Moderator: **Pamela Alonso, PhD**, Postdoctoral Fellow, Department of Physiology, LSUHSC-NO
- 1:00 - 1:25 **Patricia Molina, MD, PhD**, Professor & Department Head Physiology, ADACE Co-Director
Keeping abreast of NIH policies and funding priorities
- 1:25 - 1:50 **Kevin Murnane, PhD**, Associate Professor, Pharmacology, Toxicology, & Neuroscience, LSU Health Shreveport
Preclinical and Clinical Studies of Psychedelics for methamphetamine Addiction
- 1:50 - 2:15 **Liz Simon, PhD**, Associate Professor of Physiology, Co-Director Experimental Core, Comprehensive Alcohol-HIV/AIDS Research Center, LSUHSC-NO
Mini-Livers, Major Insights: Developing a 3D Hepatic Spheroid Model for Studying Alcohol and Metabolic Stress
- 2:15 - 2:35 **Coffee Break**
- 2:35 - 3:35 *Keynote Address*
Todd Wyatt, PhD, Professor, UNMC Division of Pulmonary, Critical Care & Sleep Medicine, Co-Director ACORN
Impact of Alcohol on Airway Injury from Smoking versus Vaping
- 3:35 - 3:40 *Closing Remarks*
Nicholas Gilpin, PhD, Professor of Physiology, ADACE Director, LSUHSC-NO