

The National Institute on Drug Abuse & The National Institute on Alcohol Abuse and Alcoholism
present

2024 NIDA-NIAAA MINI-CONVENTION

FRONTIERS IN ADDICTION RESEARCH



NIH National Institute on Drug Abuse

NIH National Institute on Alcohol Abuse and Alcoholism

October 4, 2024 • Marriott Marquis Chicago

Agenda

- 9:00 – 9:05 am **Introduction to the Mini-Convention**
Rita Valentino, Ph.D., Director, DNB, NIDA
- 9:05 – 10:10 am **Jacob P. Waletzky Memorial Award Lecture**
Introduction by George Koob, Ph.D., Director, NIAAA
Erin Calipari, Ph.D., Vanderbilt School of Medicine
Rethinking Reward and Our Understanding of Neural Dysfunction and Behavior in Addiction
- 10:10 – 11:40 am **Scientific Session I. Psychoplastogens in the Treatment of Substance Use Disorders**
Co-Chairs:
Jana Drgonova, Ph.D., NIDA
Evan Herrmann, Ph.D., NIDA
Speakers:
Leandro Ruiz-Leyva, Ph.D., University of Alabama at Birmingham
The 5-HT_{2A} Receptor as a Therapeutic Target for Polydrug Opioid and Alcohol Misuse
Jennifer Jones, M.D., Medical University of South Carolina
Ketamine as a Psychoplastogen: Psychoactive Phenomenology, Clinical Effects, and Therapeutic Implications for Substance Use Disorders
Frederick Barrett, Ph.D., Johns Hopkins University
Effects of Psilocybin in Patients with Substance Use and Mood Disorders
- 11:40 – 12:40 pm **Lunch Break (on your own)**
- 12:40 – 2:10 pm **Scientific Session II. GLP-1 Receptor Agonists for the Treatment of Substance Use Disorders**
Co-Chairs:
Sam Ananthan, Ph.D., NIDA
Mohammed Akbar, Ph.D., NIAAA
Speakers:
Luis Tuesta, Ph.D., University of Miami
Cessation Through Satiety: Leveraging GLP-1 Signaling to Curb Nicotine and Substance Use
Heath D. Schmidt, Ph.D., University of Pennsylvania
GLP-1 Receptors and Midbrain Dopamine: Mechanisms of GLP-1R Modulation of Cocaine and Fentanyl Intake

Christian Hendershot, Ph.D., University of Southern California

GLP-1 Agonists as Novel Therapeutics for Alcohol Use Disorders

Discussant:

Joseph Schacht, Ph.D., University of Colorado

2:10 – 3:20 pm

Joint NIDAA-NIAAA Early Career Investigator Showcase

Awardees:

Iness Charfi, Ph.D., University of Montreal

THC Modifies Microglial Phenotype and Induces Synaptic Pruning in Frontal Cortex of Adolescent Mice

Samuel Centanni, Ph.D., Wake Forest University School of Medicine

Insula-Bnst Circuit Regulation of Stress-Induced Susceptibility to Negative Affect in Ethanol Abstinence

Shelley Warlow, Ph.D., Dartmouth College

Mesohabenular GABA/Glutamate Projections Balance Postsynaptic Activity and Reinforcement

Cecilia Hinojosa, Ph.D., Emory University School of Medicine; University of New Mexico

Reward Neurocircuitry Predicts Longitudinal Changes in Alcohol Use Following Trauma Exposure

Belgin Yalcin, Ph.D., Stanford University

Myelin Plasticity in the Ventral Tegmental Area is Required for Opioid Reward

Corinde Wiers, Ph.D., University of Pennsylvania

Ketone Supplementation Dampens Subjective and Objective Responses to Alcohol in Rats and Humans

3:20 – 3:30 pm

Break

3:30 – 5:00 pm

Scientific Session III. The Habenula as an Anti-Addictive Circuit Hub

Co-Chairs:

Jonathan Pollock, Ph.D., NIDA

Tristan McClure-Begley, Ph.D., NIDA

Speakers:

Emmanuel Darcq, Ph.D., French Institute of Health and Medical Research

Mu Opioid Receptors in the Medial Habenula Contribute to Naloxone Aversion

Paul Kenny, Ph.D., Icahn School of Medicine at Mount Sinai

Hedgehog-Interacting Protein Acts in the Habenula to Regulate Nicotine Intake

Thomas Jhou, Ph.D., University of Maryland

Entopeduncular Nucleus Projections To The Lateral Habenula Contribute To Cocaine Avoidance

Ines Ibanez-Tallon, Ph.D., The Rockefeller University

Development of Habenular Circuit-Specific Therapies Targeting GPR151 for Nicotine and Opioid Addiction

5:00 pm

Closing Remarks