



*9th*  
**BIENNIAL MEETING**  
*of the*  
**INTERNATIONAL DRUG &  
ALCOHOL RESEARCH  
SOCIETY**

*Rio de Janeiro, Brazil*  
*April 29 – May 3, 2024*





9<sup>TH</sup>



***BIENNIAL INTERNATIONAL DRUG & ALCOHOL  
RESEARCH SOCIETY***

***PROGRAM***

***Recent Advances in Drug Addiction***

*April 29 – May 3, 2024  
Grand Hyatt Rio de Janeiro  
Rio de Janeiro, Brazil*

**Conference Organizers:**

**Syed Ali, Nick Gilpin, Barbara Juarez, Barbara Mason, Sulie L. Chang,  
Emmanuel Onaivi, Alex Dopico, Antonio Noronha, and George Koob**

**Executive Secretary:**

**Nikki Mullen**

*The International Drug & Alcohol Research Society (IDARS) would like to thank the following organizations for their generous financial support of the meeting:*



**Department of Pharmacology, Addiction Sciences and Toxicology,  
UTHSC, Memphis, TN – Alex Dopico**

**Eliot Gardner**

**Sunday, April 28, 2024**

**REGISTRATION AND WELCOME**

**3:00 – 6:00 PM**

## **Monday, April 29, 2024**

- 8:00 – 2:00 PM**    **Registration Desk Open**
- 8:00 – 8:10 AM**    **Welcome & Opening Remarks in Conference Room**  
**Nick Gilpin and George Koob**
- 8:10 – 9:00 AM**    **Plenary Lecture I**  
**Closing the Treatment Gap, and Alcohol Use Disorder Perspective**  
**George Koob, Director, NIAAA, Baltimore, Maryland, USA**
- Moderator:**        **Nick Gilpin, LSU, New Orleans, Louisiana, USA**

### **SESSION I:    DRUG AND ALCOHOL EFFECTS ACROSS THE LIFESPAN**

- Moderators:**        **Tiffany Willis (USA)**
- 9:00 – 9:20 AM**    **Epigenome-wide association study (EWAS) of cocaine users.**  
**Rodrigo Grassi-Oliveira, University of Aarhus, DENMARK.**
- 9:20 – 9:40 AM**    **Binge-drinking during mature adulthood induces behavioral and biochemical indices of cognitive decline in C57BL/6J mice.**  
**Karen Szumlinski, University of California, Santa Barbara, California, USA**
- 9:40 – 10:00 AM**    **Early life adversity effects on reward-related behavior and drug intake in developing rats.**  
**Millie Rincon-Cortes, University of Texas at Dallas, Texas, USA.**
- 10:00 – 10:20 AM**    **Prenatal alcohol effects on amygdala function and maladaptive behaviors.**  
**Marvin Diaz, SUNY Binghamton University, New York, USA**
- 10:20 – 10:40 AM**    **COFFEE/TEA BREAK**

### **SESSION II:    TRANSCRIPTIONAL AND EPIGENETIC EFFECTS OF ALCOHOL ON END ORGANS**

- Moderators:**        **Antonio Noronha (USA) and Mohammed Akbar (USA)**
- 10:40 – 11:00:**    **Role of Chromatin Modifier Developmental Pluripotency Associated Factor 4 in Mediation of Fetal Alcohol Effects on Neuroendocrine System.**  
**Dipak Sarkar, Rutgers University, USA.**
- 11:00 – 11:20:**    **RNA-seq analysis reveals mechanisms underlying binge ethanol-induced differential spleen atrophy in adolescent rats.**  
**Sulie Chang, Seton Hall University, USA.**

**11:20 – 11:40:** Adolescent binge drinking disrupts fMRI neuronal networks and cognition through epigenetic priming of neuroimmune signaling and silencing of cholinergic neurons.

*Fulton Crews*, *University of North Carolina, USA.*

**11:40 – 12:00:** Deciphering brain epitranscriptome: A new mechanism of adult psychopathology after adolescent alcohol exposure.

*Subhash Pandey*, *University of Illinois-Chicago, USA.*

**12:00 – 1:30 PM** LUNCH

### SESSION III: SUBSTANCE ABUSE AND EARLY DEVELOPMENT

**Moderators:** *Anna Bukiya (USA) and Fernando Valenzuela (USA)*

**1:30 – 1:50 PM** Fetal cerebral artery mitochondria as a target of maternal alcohol intoxication.

*Anna Bukiya*, *University of Tennessee HSC, USA.*

**1:50 – 2:10 PM** Acute exposure to THC alters discrete components of neuromuscular junction transmission in larval zebrafish.

*Declan Ali*, *University of Alberta, CANADA.*

**2:10 – 2:30 PM** Effects of prenatal alcohol exposure on behavior in mice with dopamine and microglia cell specific deletion of CB2R.

*Ana Canseco-Alba*, *National Institute of Neurology and Neurosurgery, MEXICO.*

**2:30 – 2:50 PM** Effects of developmental alcohol and cannabis exposure on cortical sensory processing.

*Alex Medina*, *University of Maryland, USA.*

**2:50 - 3:10 PM** COFFEE/TEA BREAK

### SESSION IV: FLASH TALKS- STUDENT & POST-DOC

**Moderator:** *Barbara Juarez, University of Maryland, USA*

**3:10 – 3:19 PM** Opioid-induced dysbiosis of maternal gut microbiota during gestation alters offspring gut microbiota and pain sensitivity.

*Yaa Abu*, *University of Miami, USA*

**3:19 – 3:27 PM** Cortical brain areas involved in contextual tolerance to fentanyl in male C57BL/6 mice.

*Rosa Serrano*, *Yale University, USA*

**3:27 – 3:36 PM** Central Amygdala Neuronal Populations Control Opioid-Related Behavior: The Role of Glucocorticoids.

*Lucas Tortorelli*, *NIH, USA.*

- 3:36 – 3:45 PM **Neonatal morphine exposure (NME) results in sustained alterations to the gut microbiome contributing to hypersensitivity to thermal pain in adolescence.**  
*Danielle Antoine, University of Miami, USA*
- 3:45 – 3:54 PM **Opioid antagonism modulates oxytocin-induced anxiety-like behavior: Implications for treatment of substance use disorders.**  
*Khalin E. Nisbett, NIH, USA*
- 3:54 – 4:03 PM **Binge ethanol exposure in mouse equivalent to third trimester human pregnancy: Impact on neuronal function in the subiculum.**  
*Katalina Lopez, University of New Mexico, USA*
- 4:03 – 4:12 PM **Effect of ketone esters on blood alcohol levels in rats and human.**  
*Janaina Vendruscolo, NIH, USA*
- 4:12 – 4:21 PM **Psilocybin modulation of a cognitive control nucleus.**  
*Maxwell Madden, University of Maryland, USA*
- 4:21 – 4:30 PM **Cell-Type-Specific Analysis of Dopaminergic Neurons in Ventral Hippocampus in Cocaine Action.**  
*Veronika Kondev, Mount Sinai University, USA*
- 4:30 – 4:39 PM **Systemic inhibition of mTOR activity does not block the expression of incubated craving for methamphetamine or sucrose.**  
*Fernando Cano, University of California, Santa Barbara, USA*
- 4:39 – 4:48 PM **CCL2 antagonist RS504393 reverses heroin-induced hyperalgesia and place aversion in adult male and female rats.**  
*Nadia Said, NIH, USA*
- 4:48 – 4:59 PM **Use of Social Media Platforms Among Cannabis Retailers in the United States.**  
*Patricia Cavazos-Rehg, Washington University, USA*

## **Tuesday, April 30, 2024**

**8:00 – 2:00 PM**    Registration desk open

**8:00 – 9:00 AM**    **Plenary Lecture II**  
**Associative and Sensorimotor Basal Ganglia Circuit Roles in Substance Use and Misuse.**  
**David Lovinger, *Intramural Scientific Director, NIH/NIAAA, USA***

**Moderator:**        **Antonio Noronha (USA)**

<b>SESSION V:        RECENT INSIGHTS ON THE NEUROBIOLOGY OF STRESS EFFECTS ON ALCOHOL- AND COCAINE-RELATED BEHAVIORS</b>
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**Moderator:**        **Marcus Weera (USA)**

**9:00 – 9:20 AM**    **Stress increases voluntary ethanol intake in mice with a history of chronic intermittent ethanol exposure.**  
**Marcelo Lopez, *Medical University of South Carolina, USA.***

**9:20 – 9:40 AM**    **Lateral hypothalamus mediates stress-induced escalation of alcohol drinking.**  
**Marcus Weera, *Tufts University, USA.***

**9:40 – 10:00 AM**    **Adult BNST stimulation promotes sex-specific negative affect-like behavior and parabrachial activation in mice with adolescent alcohol history.**  
**Lucas Albrechet-Souza, *LSU Health Sciences Center, USA.***

**10:00 – 10:20 AM**    **Critical role of microglia in stress-induced neuroadaptations in accumbens core and cocaine seeking.**  
**Constanza Garcia-Keller, *Medical College of Wisconsin, USA.***

**10:20 – 10:40 AM**    **COFFEE/TEA BREAK**

<b>SESSION VI:        EXPLORING MULTILEVEL VULNERABILITIES IN ADDICTION: INSIGHTS AND INNOVATIONS FROM THE COCAINE BIOBANK</b>
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**Moderators:**        **Olivier George (USA) and Lieselot Carrette (USA)**

**10:40 – 11:00 AM**    **An autophagy-related protein Becn2 regulates cocaine reward behaviors via the brain dopaminergic system.**  
**Ming Xu, *University of Chicago, USA.***

**11:00 – 11:20 AM**    **Identification of gene variants that predict cocaine addiction-like behaviors in heterogeneous stock rats.**  
**Olivier George, *University of California San Diego, USA***

**11:20 – 11:40 AM**    **Sex-specific differences in deltaFosB expression promotes neuroadaptation and cocaine self-administration in heterogeneous stock rats.**



Philip Vieira; CSU Dominguez Hills, USA.

**11:40 – 12:00 PM** **Role of Peli1 expression and microglia activation in cocaine self-administration in heterogeneous stock rats.**

Ming-Lei Guo, Eastern Virginia Medical School, USA.

**12:00 – 12:20 PM** **Leptin Protects Against the Development and Expression of Cocaine Addiction-Like Behavior in Heterogeneous Stock Rats.**

Lieselot Carrette, University of California San Diego, USA

**12:20 – 1:40 PM** **LUNCH BREAK**

**SESSION VII: THE INTERSECTION OF PAIN-RELATED BEHAVIORS AND  
SUBSTANCE USE DISORDERS**

**Moderators:** Jose Moron-Concepcion (USA)

**1:40 - 2:00 PM** **Genetic and genomic analysis of mechanisms underlying ethanol-induced analgesia.**

Michael Miles, Virginia Commonwealth University, USA

**2:00 - 2:20 PM** **Oxytocin effect on hyperalgesia during alcohol dependence in rats.**

Brendan Tunstall, University of Tennessee Health Science Center, USA

**2:20 - 2:40 PM** **Sex-dependent effect of pain on alcohol drinking behavior in rat models of AUD: role of the CeA-NAc dynorphin projection.**

Lucia Hipolito, University of Valencia, SPAIN

**2:40 - 2:50 PM** **COFFEE/TEA BREAK**

**2:50 - 3:10 PM** **Dissection of neural circuitry underlying pain-induced aversion leading to abnormal opioid intake.**

Nicolas Massaly, University of California, Los Angeles, USA

**3:10 – 3:30 PM** **Role of sex in pain-induced facilitation of fentanyl intake.**

Jose Moron-Concepcion, Washington University, USA

**3:30 – 3:50 PM** **Elevated dopamine D1/D2 receptor ratio in opioid use disorder recovery.**

Peter Manza, NIH, USA

**3:50 – 4:10 PM** **Dissection of PAG connectivity during osteoarthritis progression for the investigation of potential networks related to opioid addiction.**

Joyce da Silva, University of Maryland, USA

**4:10 – 5:00 PM** **IDARS Business Meeting  
Led by Nick Gilpin and Barbara Juarez**

**Wednesday, May 1, 2024**

**FREE DAY**

**CONFERENCE TOUR**

**NO SCHEDULED CONFERENCE  
ACTIVITIES**

## Thursday, May 2, 2024

### SESSION VIII: ALCOHOL: FROM GENES TO THE CLINIC

- Moderators:** Adolf Pfefferbaum (USA) and Edith Sullivan (USA)
- 8:20 – 8:40 AM** **Transcriptomic mechanisms of chronic alcohol exposure.**  
Sean Farris, *University of Pittsburgh, USA*
- 8:40 – 9:00 AM** **A role for interleukin-33 in the neuroimmunophysiology of excessive alcohol intake.**  
Regina Mangieri, *UT-Austin, USA*
- 9:00 – 9:20 AM** **BK channels enable differential interactions between alcohol and neurosteroids on cerebral artery function.**  
Alex Dopico, *University of Tennessee Health Science Center, USA*
- 9:20 – 9:40 AM** **AUD and aging exert compounded untoward effects on regional thalamic volumes in people living with HIV infection.**  
Adolf Pfefferbaum, *SRI, USA*
- 9:40 – 10:00 PM** **COFFEE/TEA BREAK**

### SESSION IX: TARGETING PEPTIDE RECEPTORS FOR ADDICTION TREATMENT

- Moderators:** Giordano de Guglielmo (USA) and Roberto Ciccocioppo (ITALY)
- 10:00 – 10:20 AM** **Stress effects on kappa opioid receptor responses in dopamine neurons projecting to the dorsal medial prefrontal cortex.**  
Elyssa Margolis, *University of California, San Francisco, USA.*
- 10:20 – 10:40 AM** **The role of kappa opioid receptor-expressing cells in social defeat stress-escalated alcohol drinking.**  
Rajani Maiya, *LSU Health Sciences Center, USA*
- 10:40 – 11:00 AM** **The role of N/OFQ signaling in a rat model of opioid use disorder.**  
Giordano de Guglielmo, *University of California San Diego, USA*
- 11:00 – 11:20 AM** **Coactivation of NOP and classical opioid receptor systems in opioid use disorder.**  
Roberto Ciccocioppo, *University of Camerino, ITALY.*
- 11:20 – 11:40 AM** **Oxytocin signaling in the central amygdala contributes to its therapeutic potential in reducing alcohol consumption.**  
Howard Becker, *Medical University of South Carolina, USA.*

11:40 – 12:00 PM **Hormone control of food versus drug choice behavior.**  
*Tod Kippin, University of California, Santa Barbara, USA.*

12:00 – 1:30 PM LUNCH

## SESSION X: CANNABINOIDS AND ENDOCANNABINOIDS

**Moderators:** Emmanuel Onaivi (USA) and Prakash Nagarkatti (USA)

1:30 - 1:50 PM **Psychiatric Side Effects of the Cannabinoid CB1 Inverse Agonist SR141716 (Rimonabant) were Likely Predictable from Preclinical Animal Models.**  
*Eliot Gardner, NIH, USA*

1:50 - 2:10 PM **Cannabinoid CB2 receptor neuro-immune crosstalk in alcohol induced behavioral effects.**  
*Emmanuel Onaivi, NIDA-NIH & William Paterson University, USA*

2:10 - 2:30 PM **Role of anandamide in the attenuation of acute respiratory distress syndrome through induction of epigenetic pathways and regulation of dysbiosis.**  
*Mitzi Nagarkatti, University of South Carolina, USA*

2:30 - 2:50 PM **Intracellular signaling of SR171416A – A CB1R inverse agonist/antagonist evoked emesis in least shrew.**  
*Nissar Darmani, Western University of Health Sciences, USA*

2:50 - 3:10 PM **Alcohol induced behavioral and immune perturbations are attenuated by activation of CB2 cannabinoid receptors.**  
*Aaliyah Roberts, William Paterson University, USA*

3:10 – 3:30 PM **Delta-8-tetrahydrocannabinol Attenuates Experimental Multiple Sclerosis Through Modulation of Gut Microbiota**  
*Prakash Nagarkatti, University of South Carolina, USA*

3:30 - 3:40 PM COFFEE/TEA BREAK

## SESSION XI: CORTICAL CIRCUIT CONTROL OF COGNITION AND ACTION IN ADDICTION

**Moderator:** Brian Mathur (USA)

3:40 – 4:00 PM **Transcranial magnetic stimulation of human PFC effects on behavioral outcomes in AUD patients**  
*Abraham Zangen, Ben Gurion University, ISRAEL*

4:00 – 4:20 PM **Decoding Neuropeptide S Modulation of OFC-mediated Reward Seeking in an Oral Fentanyl Self Administration Task.**  
*Kasey Girven, University of Washington, USA*

- 4:20 – 4:40 PM**     **Chronic alcohol drinking effects on PFC circuits in non-human primates.**  
*Verginia Cuzon-Carlson, Oregon Health & Science University, USA*
- 4:40 – 5:00 PM**     **Alcohol drinking is governed by anterior cingulate cortex-dependent arousal.**  
*Rafiq Huda, Rutgers University, USA*

## **Friday, May 3, 2024**

### **SESSION XII: ALCOHOL AND OPIOIDS: OVERDOSE, STRESS, AND TREATMENT**

**Moderators:** Leandro Vendruscolo (USA) and Mohammed Akbar (USA)

**8:40 - 9:00 AM** **Understanding Fentanyl Lethality: Respiratory Depression and Potential Biomarkers of Addiction-like Behaviors.**  
Renata Marchette, NIDA, NIH, USA.

**9:00 - 9:20 AM** **The role of central amygdala astrocytes in ethanol dependence.**  
Judson Chandler; Medical University of South Carolina, USA

**9:20 - 9:40 AM** **The Stress of Addiction: Dysregulation of Psycho-neuro-endocrine Systems in Alcohol and Opioid Dependence**  
Leandro Vendruscolo, NIDA, NIH, USA

**9:40 – 10:00 AM** **A Proof-of-Concept Human Laboratory Study of a Selective Glucocorticoid Antagonist for Alcohol Use Disorder.**  
Barbara Mason, Scripps, USA.

**10:00 - 10:20 AM** **KNX100: A Novel Clinical-Stage Small Molecule Showing Potential for Treating Opioid and Alcohol Use Disorders.**  
Michael Bowen, University of Sydney, AUSTRALIA

**10:20 – 10:40 AM** COFFEE/TEA BREAK

### **SESSION XIII: CELLULAR CROSSTALK IN HIV AND DRUG ABUSE-MEDIATED INFLAMMATION**

**Moderators:** Shilpa Buch (USA) and Sabita Roy (USA)

**10:40 – 11:00 AM** **HIV and opiate-mediated AD and senescence in astrocytes.**  
Shilpa Buch, University of Nebraska, USA

**11:00 – 11:20 AM** **HIV and Drugs of Abuse-Mediated Neuroinflammation: Role of miRNAs and inflammasomes.**  
Palsamy Periyasamy, University of Nebraska, USA

**11:20 – 11:40 AM** **Neuroinflammatory overload in methamphetamine misuse and HIV infection.**  
Michael Toborek, University of Miami, USA

**11:40 – 12:00 AM** **Single cell RNA sequencing of mouse amygdala under opioid dependent and withdrawal states.**  
Sabita Roy, University of Miami, USA

**12:00 – 12:20 PM Lung and brain injury by alcohol and e-cigarettes: Common mechanisms and role of extracellular vesicles in organ crosstalk.**  
*Yuri Persidsky, Temple University, USA*

**12:20 – 12:30 PM CLOSING COMMENTS & DISCUSSION**  
*George Koob, IDARS President*

**12:30 – 2:00 PM LUNCH**

**2:00 PM**  
**CONFERENCE DISMISSED**

**9<sup>th</sup> IDARS Meeting  
Rio de Janeiro, Brazil  
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