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

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

**NIAAA**
National Institute on Alcohol Abuse and Alcoholism

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.
_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. 
_Anna 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._

_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

**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 Dopaminoceptive 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

**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)

SESSION V:  RECENT INSIGHTS ON THE NEUROBIOLOGY OF STRESS EFFECTS ON ALCOHOL- AND COCAINE-RELATED BEHAVIORS

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.

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

SESSION VI:  EXPLORING MULTILEVEL VULNERABILITIES IN ADDICTION: INSIGHTS AND INNOVATIONS FROM THE COCAINE BIOBANK

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 PelI 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 Sex Differences in the Adolescent Alcohol-Induced Hyperalgesia

Tiffany Wills, LSUHSC, 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/anatagonist 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
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