



**EBPS Biennial Meeting**  
**17-20 September 2025 Almería, Spain**



<b>Wednesday 17<sup>th</sup> Sept</b>	<b>Thursday 18<sup>th</sup> Sept</b>	<b>Friday 19<sup>th</sup> Sept</b>	<b>Saturday 20<sup>th</sup> Sept</b>
	<b>8:30-9:15 Plenary lecture</b> Angela Roberts	<b>8:30-9:15 Plenary lecture</b> Marta Miquel	<b>9:00-9:45 Plenary lecture</b> John Cryan
<b>9:30 – 13:00 Pre-meeting Workshop</b>	<b>9:30 – 11:00 Featured Symposia 1</b>	<b>9:30 – 11:00 Featured Symposia 2</b>	<b>10:00 – 11:30 Parallel symposia</b> S19, S20 & S21
	<b>11:00-11:30 Coffee break</b>	<b>11:00-11:30 Coffee break</b>	<b>11:30- 12:00 Coffee break</b>
<b>13:00 -15:00 Registration Opens</b>	<b>11:30-13:00 Parallel Symposia</b> S1, S2 &S3	<b>11:30-13:00 Parallel Symposia</b> S10, S11 & S12	<b>12:00 – 13:30 Parallel Symposia</b> S22, S23 & S24
<b>15:00 – 15:10 Welcome EBPS 2025</b>	<b>13:00 – 15:00 Lunch and Posters</b>	<b>13:00 – 15:00 Lunch and Posters</b>	<b>13:30 – 14:00 EBPS Assembly</b> Closing Remarks
<b>15:10 – 16:00 Travel Award Data Blitz</b>	<b>15:00 – 16:30 Parallel Symposia</b> S4, S5 & S6	<b>15:00 – 16:30 Parallel Symposia</b> S13, S14 & S15	
<b>16:05 – 17:00 Marian Jöels IDEA panel</b>	<b>16:45 – 18:15 Parallel Symposia</b> S7, S8 & S9	<b>16:45-18:15 Parallel Symposia</b> S16, S17 & S18	
<b>17:00 – 17:30 Break Mentor-Mentee meeting</b>	<b>18:30 – 19:30 Parallel Nanosymposia</b>	<b>18:30 – 19:30 Roundtable</b> Ethic and reserach	
<b>17:30 – 19:00 Awardee Ceremony Plenary lectures Ida Frederikssen and Dora Duka</b>		<b>18:30 – 19: 30 Roundtable</b> IDEA	
<b>19:00 - 20:30 Opening Reception</b>			



**EBPS Biennial Meeting**  
**17-20 September 2025 Almería, Spain**



**Wednesday, 17th September 2025**

**9:30 - 13:00 Pre-meeting workshop**

**Organized by Merce Correa** (*Spain*)

"From bench to bedside: how to improve the translational aspect of your research"

**Topics:**

Applied behavioral and computational tools IA. **Laura Lopez Cruz, Anna Stuckert and Santiago Mora** (*United Kingdom*).  
How to deal with the pharma industry. **Trevor Robbins** (*United Kingdom*) and **John Salamone** (*USA*).

**12:00 - 15:00 Registration Opens**

**15:00 - 15:10 Welcome**

**15:10 - 16:00 Travel Awardee Data Blitz**

**16:05 - 17:00 Panel discussion on Inclusion, Diversity, Equity and Accessibility with Marian Jöels** (*Netherlands*)

**17:00 - 17:30 Break and Mentor-Mentee meeting**

**17:30 - 19:00 Awardee Ceremony**

**Early career Investigator Award lecture Ida Fredriksson** (*Sweden*)

**Distinguished Investigator Award lecture Dora Duka** (*United Kingdom*)

**19:00 - 20:30 Opening Reception**

## Thursday, 18th September 2025

### 8:30 - 9:15 Plenary lecture

**Angela Roberts** (UK) Prefrontal regulation of emotion: insights into anhedonia, anxiety and pharmacotherapy

### 9:30 - 11:00 Featured Symposia 1

**Global Perspectives on Neuropsychiatric Research: Stress, Cognition, and Innovative Therapeutics.**

**Chair: Princess Felix** (USA)

**Vidita Vaidya** (India)

Neurocircuitry and Molecular Regulation of Stress and Emotion in Mood Disorders

**Oritoke Okeowo** (Nigeria)

Novel Pharmacological Approaches for Stress Related Disorders

**Inna Gaisler-Salomon** (Israel)

Transgenerational Stress and Glutamate Dysregulation in Cognitive Dysfunction

**Gwladys Ngoupaye** (Cameroon)

Cameroonian Medicinal Plants: Mechanistic Insights on Stress-Induced Cognitive Deficits

### 11:00 - 11:30 Coffee break

### 11:30 - 13:00 Parallel symposia

**Symposium 1 • Endocannabinoids and sex-dependent behavior: Insights from development to adulthood.**

**Chair: Carmen Sandi** (Switzerland)

**Miriam Melis** (Italy)

Sex-specific phenotypes induced by prenatal perturbation of endocannabinoid signaling

**Olivier Manzoni** (France)

Lifelong sex-specific impacts of prenatal cannabis exposure

**Arnau Busquets Garcia** (Spain)

Cannabinoid receptors and higher-order conditioning

**Silvie Ruigrok** (Switzerland)

Estrous cycle modulation of anxiety and motivation - focus on the endocannabinoid system

**Symposium 2 • Triggered Temptations: New Findings on How Environmental Cues Fuel Addiction and Gambling**

**Chair: Anna Samaha** (Canada)

**Anna Samaha** (Canada)

Modeling cue-triggered relapse to cocaine use in rats

**Muhammad Parvaz** (USA)

Neurobiology of incubation of cue-reactivity in individuals with stimulants use disorders

**Catharine Winstanley** (Canada)

Win-paired cues drive risky choice through divergent mechanisms in male and female rats

**Rajita Sinha** (USA)

Drugs, Stress Cues or Both? Prospective effects on Craving and Drug Use in the Real World

**Symposium 3 • A translational perspective on safety learning and safety behaviours**

**Chair: Joanna Yau** (Australia)

**Heidi Meyer** (USA)

Experience with safety learning can scale later fear responding

**Alba López Moraga** (Belgium)

Differential effects of chronic stress on active avoidance procedures

**Patrick Laing** (USA)

Neural and behavioral mechanisms of Pavlovian safety learning

**Sarah Tashjian** (Australia)

vmPFC integration of safety information in humans

### 13:00 - 15:00 Lunch and Posters

## 15:00 - 16:30 Parallel Symposia

### Symposium 4 • Innovations and Challenges of Psychedelics in Behavioral Health Disorders

**Chair: Kathryn Cunningham (USA)**

**Kathryn Cunningham (USA)**

Probing Mechanisms and Novel 5-HT<sub>2R</sub> Modulators as Psychedelic-Inspired Therapeutics for Cocaine Use Disorder

**Kurt Rasmussen (USA)**

Therapeutic potential for non-hallucinogenic psychoplastogens

**Friederike Holze (Switzerland)**

Clinical pharmacology of different psychedelic drugs in healthy human volunteers

**Leah Mayo (Canada)**

Challenges and opportunities in psychedelic clinical trial design

### Symposium 5 • Using Computational & Cognitive Methods to Study Substance Use Over the Addiction Course

**Chair: Justin Strickland (USA)**

**Justin Strickland (USA)**

Evaluating Value-Based Decision-Making Mechanisms Underlying Opioid Use Disorder

**Amber Copeland (UK)**

Modelling Changes in Value-Based Decision-Making in Response to Contingency Management

**Samuel Acuff (USA)**

Exploring Trajectories Between Behavioral Economic Reward and Cannabis Use

**José C. Perales (Spain)**

The Role of Emotion Regulation Mechanisms in Gambling and Gaming Craving

### Symposium 6 • Motivational and cognitive effects of manipulating the dopamine transporter: Potential therapeutic actions of atypical DAT inhibitors. **Chair: Mercè Correa (Spain)**

**Mercè Correa (Spain)**

Vigor and work selection after bupropion administration in mice

**John D. Salamone (USA)**

Effort-related motivational effects of novel atypical DAT inhibitors in rats of both sexes

**Jana Lubec (Austria)**

Neurochemical, physiological, and cognitive effects of dopamine transporter inhibitors in aging rats

**Marta Pardo (Spain)**

DAT transgenic rats as a new model for vulnerability to stress

## 16:45 - 18:15 Parallel Symposia

### Symposium 7 • From synapse to nucleus: an integrated view of neuronal ensembles

**Chair: F. Javier Rubio (USA)**

**Eisuke Koya (UK)**

Environmental enrichment suppresses food seeking and induces Prelimbic ensemble overdrive

**Leslie Ramsey (USA)**

Searching for the engram in prefrontal cortical neuronal ensembles: mechanisms that mediate drug and social learning

**Sophie Tronel (France)**

Looking for the engram of PTSD-like memory: focus on the role of NMDA receptors of the Anterior Cingulate cortex in traumatic memory maintenance

**F. Javier Rubio (USA)**

Plasticity changes in synapses from neuronal ensembles: seeking the synaptic ensemble

### Symposium 8 • Pharmacology and Neural Mechanisms of Comorbid Pain and Drug Use

**Chair: Nicholas W. Gilpin (USA)**

**Lucía Hipólito-Cubedo (Spain)**

Modeling negative affective states comorbid with pain and drug intake: insights from rat models and translational perspectives

**Jose Moron-Concepcion (USA)**

Sex-specific effects of inflammatory pain on fentanyl self-administration and modulation by ovarian hormones

**Joyce T. Da Silva (USA)**

Periaqueductal Gray (PAG) Connectivity and Its Role in Chronic Pain and Addiction in Osteoarthritis: A Whole-Brain Approach

**Nicholas W. Gilpin (USA)**

Vaporized Cannabinoid Inhalation Effects on Chronic Inflammatory Pain Outcomes

### **Symposium 9 • Behavioural and neurobiological mechanisms of choice in rodent models of addiction**

**Chair: Nathan Marchant (Netherlands)**

**Nathan Marchant (Netherlands)**

Role of anterior insula cortex in choice between alcohol and social reward

**Marco Venniro (USA)**

Neurobiological mechanisms mediating social and drug craving

**Youna Vandaele (France)**

Investigation of the decision-making processes underlying choice between drug and nondrug rewards

**Jamie Peters (USA)**

Mu opioid receptors and heroin vs. alcohol choice

### **18:30 - 19:30 Parallel Nanosymposia**

#### **Nanosymposium 1 • Amyotrophic lateral sclerosis: from the bench to the clinic**

**Chair: Santiago Mora (UK)**

**Xavier Navarro (Spain)**

Pharmacological targeting Kv7 and TSPO as a therapeutic strategy for ALS

**Silvia Corrochano (Spain)**

Diet impact in modifying motor-cognitive phenotype in a mouse model of TDP43 proteinopathy

**Beatriz Vélez-Gómez (Spain)**

Comprehensive pharmacological approach in ALS: quality of life beyond motor symptoms

**Ilary Allodi (UK)**

Gene therapy strategies for the treatment of Amyotrophic Lateral Sclerosis

#### **Nanosymposium 2 • Cannabinoid regulation of behaviour: addiction, cell specificity and development**

**Chair: Alejandro Higuera-Matas (Spain)**

**Luigi Bellocchio (France)**

Cellular and Sub-cellular targets of cannabinoids: from signaling to behavior and beyond

**Mireia Medrano (Spain)**

The role of PPAR-gamma as a modulator of cocaine-seeking behaviour in male and female mice

**Alejandro Higuera-Matas (Spain)**

Exposure to cannabinoids during adolescence as a risk factor for psychopathology

**Erika Zamberletti (Italy)**

Sex-dependent consequences of adolescent exposure to different THC and CBD combinations

#### **Nanosymposium 3 • Beyond D1 and D2 Dopamine Receptor-Expressing Neurons: Modulating Circuits and Behavior**

**Chair: Michelle W. Antoine (USA)**

**David Haggerty (USA)**

D1/D2 Input to Npas1+ GPe Neurons Shapes Motor and Reward Actions

**Bernard Le Foll (Canada)**

Dopamine D3 Receptors in Nicotine Addiction: From Preclinical to Clinical Studies

**Melissa Perreault (Canada)**

Exploring the Functional Role of Gq-Coupled Dopamine Receptors in the Brain

**Michelle W. Antoine (USA)**

Roles of Striatal Neurons Co-Expressing Dopamine D1/D2 Receptors in Autism Mouse Models.

## Friday, 19th September 2025

### 8:30 - 9:15 Plenary lecture

**Marta Miquel** (*Spain*) "Cerebellar modulation of drug-induced reward: How Cinderella came to the ball"

### 9:30 - 11:00 Featured Symposia 2

#### Advanced Technologies and Big Data in Behavioral Pharmacology and Psychiatry

**Chair: Brenda Curtis** (*USA*)

**Brenda Curtis** (*USA*)

Digital Surveillance for Substance Use Trends: Social Media and Behavioral Data Analysis

**Peter R. Chai** (*USA*)

Smartphone phenotypes of PrEP adherence in substance use

**Ignacio Obeso** (*Spain*)

NeuroCognitive Dynamics in Pre-Addiction States Using Big Data and Neurotechnology

**Stephanie Carreiro** (*Spain*)

Wearable Sensors to Understand, Predict, and Respond to Substance Use Treatment

### 11:00 - 11:30 Coffee break

### 11:30 - 13:00 Parallel symposia

#### Symposium 10 • Recent advances in addiction vulnerability in animal models and humans

**Chair: Yavin Shaham** (*USA*)

**Nazzareno Cannella** (*Italy*)

Multisymptomatic screening reveals differences of addiction behavior and treatment outcome

**Ginevra D'Ottavio** (*USA*)

Exploring addiction vulnerability in preclinical models using drug vs social choice tasks

**Irene Perini** (*Sweden*)

Choice preference for alcohol over a natural reward in heavy versus light drinkers

**Xiaosi Gu** (*USA*)

A computational mechanism linking momentary craving and reward learning

#### Symposium 11 • Neurohormonal dysregulations underlying alcohol and opioid use disorders

**Chair: Brendan Tunstall** (*USA*)

**Dr. Brendan Tunstall** (*USA*)

Oxytocin against hyperalgesia and intensified alcohol drinking in alcohol dependence

**Dr. Kristen Pleil** (*USA*)

Estrogen enhancement of risky alcohol drinking behavior

**Dr. Brandon Warren** (*USA*)

Novel MOR-partial agonist against opioid self-administration, withdrawal, and pain

**Dr. Hayley Manke** (*USA*)

Role of PKC $\epsilon$  in Alcohol Dependence

#### Symposium 12 • New insights on individual differences in pain and interoception using dense sampling techniques in humans. **Chair: Siri Leknes** (*Norway*)

**Micah Allen** (*Denmark*)

Brain-gut functional interactions in response to semaglutide treatment: a dense sampling N-of-1 fMRI study

**India Morrison** (*Sweden*)

Iterative dyadic social interactions reveal context-sensitive neurohormonal changes

**Karin Jensen** (*Sweden*)

Neural learning mechanisms in the development of nociplastic pain: a dense sampling prospective longitudinal study of chronic non-specific pain

**Marie Eikemo** (*Norway*)

Predicting opioid responses and opioid use in surgery patients in the U.S. and Norway

## 13:00 - 15:00 Lunch and Posters

## 15:00 - 16:30 Parallel Symposia

### Symposium 13 • The Stress of the Trip: Interactions between psychedelics and the stress response

**Chair: Ana Deutsch** (Canada)

**Ana Deutsch** (Canada)

The impact of LSD and MDMA on stress-related biomarkers & the eCB system in healthy humans

**Sarah Gibson Cook** (Canada)

Psilocybin induces sex- and context-specific recruitment of the stress axis

**Helena Aicher** (Switzerland)

Impact of Ayahuasca-Inspired DMT/Harmine Formulation on Stress Reactivity & the ANS in Healthy Humans

**Margareth Nogueira** (USA)

5-MeO-DMT effects on anxiety-related behavior and gene expression

### Symposium 14 • Beyond Reward Prediction Error: translational conceptualizations, findings, and applications that shed a new light on dopamine's function in complex behavior. **Chair: Rita Goldstein** (USA)

**Vijay Mohan K Nambodiri** (USA)

Extinction and retrospective learning

**Geoffrey Schoenbaum** (USA)

Striatal dopamine signals errors in cue prediction during sensory preconditioning

**Rita Goldstein** (USA)

Methylphenidate- and reconsolidation-enhanced drug memory forgetting in human addiction

**Roshan Cools** (Netherlands)

Role of dopamine in controllability inference for human cognitive control

### Symposium 15 • Addictive Substances and Their Impact on Brain and Molecular Pathways

**Chair: Mohamed Kabbaj** (USA)

**Stefania Maccari** (France)

Prenatal stress effects on alcohol drinking: role of oxytocin and metabotropic receptors

**Mary K Lobo** (USA)

Perinatal fentanyl exposure impacts behavioral and brain molecular mechanisms

**Mohamed Kabbaj** (USA)

Role of medium spiny neurons in ketamine reinstatement

**Marcelo Wood** (USA)

Investigating the opposing roles of the nuclear orphan receptor NR4A2 in drug-seeking and relapse of drug-seeking

## 16:45 - 18:15 Parallel Symposia

### Symposium 16 • Oxytocin: A promising old acquaintance

**Chair: Rossella Ventura** (Italy)

**Valery Grinevich** (Germany)

Oxytocin signaling in the prefrontal cortex

**Inga D. Neumann** (Germany)

Prosocial, anxiolytic, and Stress-protective effects of oxytocin in rodents

**Bice Chini** (Italy)

Long-lasting effects of Early life Oxytocin Administration in mice models of neurodevelopmental disorders

**Simona Cabib** (Italy)

Role of oxytocin in the development of the motivational salience neurocircuitry

### Symposium 17 • New insights into neuromodulatory underpinnings of adaptive behaviour

**Chair: Philip Jean-Richard-dit-Bressel** (Australia)

**Emmanuel Valjent** (France)

Deconstructing the role of dopamine D2 receptors in motivated behaviors

**Philip Jean-Richard-dit-Bressel** (*Australia*)

Monoamine release during instrumental versus Pavlovian aversive learning

**Laura Corbit** (*Canada*)

Locus coeruleus activity promotes learning updates following changes in reward

**Jay Bertran-Gonzalez** (*Australia*)

At D2-neuron's discretion: revealing dominant D2-to D1-neuron modulation in learning

#### **Symposium 18 • The use of non-human primates in addiction-related research**

**Chair: Christelle Baunez** (*France*)

**Daniel Borgatti** (*USA*)

Role of sleep disruption in cognitive impairment associated with methamphetamine use in rhesus monkeys

**Paul Czoty** (*USA*)

Nociceptin-orphanin FQ peptide (NOP) receptors as promising targets for substance use disorder medications: evidence from nonhuman primate models.

**Christelle Baunez** (*France*)

Motivation for cocaine is reduced by subthalamic nucleus deep brain stimulation in macaques

**Anders Fink-Jensen** (*Denmark*)

Effect of semaglutide and other glucagon-like peptide-1 (GLP-1) receptor agonists on alcohol consumption in alcohol-preferring vervet monkeys

**18:30 - 19:30 Roundtable on animal research**

**18:30 - 19:30 Roundtable IDEA**

## **Saturday, 20th September 2025**

### **9:00 - 9:45 Plenary Lecture**

**John Cryan** (*Ireland*) "Bugs, drugs & behaviour: microbiome as a key regulator of brain function across the lifespan"

### **10:00 - 11:30 Parallel symposia**

#### **Symposium 19 • The role of prefrontal cortical networks in flexible and compulsive reward-related behavior**

**Chair: Ingo Willuhn** (*Netherlands*)

**Alicia Izquierdo** (*USA*)

Frontocortical circuits in learning under uncertainty

**Ingo Willuhn** (*Netherlands*)

Cortico-striatal circuits mediate compulsive behavior in schedule-induced polydipsia

**Frank Meye** (*Netherlands*)

A prefrontal cortex-lateral hypothalamus circuit controls stress-driven food intake

**Stephanie Borgland** (*Canada*)

Effect of astrocyte dysfunction in the OFC on goal-directed behaviour

#### **Symposium 20 • The Dual Impact of Cannabis: Chronic and Acute Effects of Cannabinoids on Human Behaviour**

**Chair: Sara Kroll** (*Switzerland*)

**Lukas Eggenberger** (*Switzerland*)

Linking THC and CBD Hair Analytes to Cognitive and Mental Health Outcomes

**Ziva Cooper** (*USA*)

Sex-dependent effects of cannabis: Does use frequency impact outcomes?

**Amir Englund** (*UK*)

The interactive effects of THC and CBD in healthy volunteers and schizophrenia patients

**Connor Haggarty** (*USA*)

Harnessing the cannabinoid system for the treatment of PTSD



## **Symposium 21 • Role of microglia in synaptic plasticity associated with substance use disorders**

**Chair: Ingrid Reverte (Italy)**

**Daniele Caprioli (Italy)**

Microglia and AMPA receptor plasticity during cocaine withdrawal

**Marie-Eve Tremblay (Canada)**

The outcomes of cannabinoids and psychedelics on microglia

**Jacqueline Barker (USA)**

Neuroimmune mechanisms of dysregulated cocaine seeking in a mouse model of HIV infection

**Liliana M. Cancela (Argentina)**

Microglia and Glutamatergic Mechanisms in Stress-Induced Vulnerability to Cocaine Addiction

**11:30 - 12:00 Coffee break**

**12:00 - 13:30 Parallel symposia**

## **Symposium 22 • New therapies for psychostimulant addiction**

**Chair: Malgorzata Filip/Christian P. Müller (Poland/Germany)**

**Malgorzata Filip (Poland)**

Cocaine seeking during abstinence: effects of esketamine and Tat-NR2B9c peptide

**Judith R. Homberg (Netherlands)**

Controlling cocaine reward and self-administration by targeting dopaminergic and serotonergic storage vesicles

**Rainer Spanagel (Germany)**

Cell type-specific multi-omics analysis of cocaine use disorder in the addiction circuitry reveals new drug targets  
addiction circuitry reveals new drug targets

**Christian P. Müller (Germany)**

The pharmacotherapy of psychostimulant use disorders – past, present, and future ideas

## **Symposium 23 • Sex Differences in the Risk, Pathophysiology, and Treatment of Neuropsychiatric Disorders**

**Chair: Christina Dalla (Greece)**

**Debra Bangasser (USA)**

Sex differences in the effects of early resource scarcity on motivated behavior

**Christina Dalla (Greece)**

Sex differences in psycho-pharmacological effects of GPER1 estrogen membrane receptor

**Patrizia Campolongo (Italy)**

Sex differences in fear expression and persistence in an animal model of PTSD

**Ivan Nalvarte (Sweden)**

Sex hormones, gender, and the aging brain

## **Symposium 24 • Uncovering the behavioral and biological factors underlying individual differences in risk for alcohol use disorder. Chair: Andrew Holmes (USA)**

**Esi Domi (Italy)**

Individual differences and neural substrates in compulsive alcohol self-administration

**Anna Beyeler (France)**

Contribution of the insular cortex to persistent alcohol drinking in mice

**Andrew Holmes (USA)**

Artificial intelligence-based prediction of individual differences in mouse alcohol binge-drinking

**Markus Heilig (Sweden)**

Massive single-nucleus transcriptional profiling reveals a novel molecular substrate of compulsive alcohol use

**13:30 - 14:00 EBPS Assembly and Closing Remarks**

**14:00 - 14:30 EBPS Executive Committee Meeting** (by invitation including new members)

## LIST OF POSTERS

### Poster Session 1

Thursday, 18 September • 13:00-15:00

**P1.1 Ines Erkizia-Santamaria (Spain)**

Endogenous serotonin modulates psychedelic-like effects of psilocybin in mice

**P1.2 Margareth Lima (USA)**

Therapeutic effects of the psychedelic 5-MeO-DMT in opioid use disorder

**P1.3 Cristina Izquierd Luengo (Spain)**

Unraveling the 5-HT<sub>2C</sub> receptor's role in somatosensory filtering: implications in psychosis and therapeutic potential

**P1.4 Nathaniel Kregar (USA)**

Psilocybin disrupts heroin cue reactivity in prefrontal cortex neuronal ensembles

**P1.5 Jordi Jornet-Plaza (Spain)**

Signs of antidepressant-like effects following adolescent ketamine in selectively bred low-responder rats

**P1.6 Elena Hernández Hernández (Spain)**

Characterization of the acute effects of psilocybin in male and female aging mice

**P1.7 Adia Stone (Canada)**

Challenges with the use of sweet additives in an oral morphine self-administration task in male and female rats

**P1.8 Hayley Thorpe (Canada)**

Cadm2 gene knockout in mice modifies cannabinoid response and preference, and affects the electrophysiological properties of prelimbic cortical neurons

**P1.9 Irene Garcia Manzanares (Spain)**

Novel behavioral approaches to evaluate psychotic-like states induced by Delta-9-Tetrahydrocannabinol in mice

**P1.10 Valeria Serra (Italy)**

Role of the lateral hypothalamus in the hyperdopaminergic phenotype induced by prenatal THC exposure

**P1.11 Roberta Leone (Italy)**

Dysregulation of tryptophan metabolism and the disinhibition of dopamine neurons induced by in utero cannabis exposure

**P1.12 Lucía Cárcel Valle (Spain)**

Modulation of Anxiety by Cannabidiol in a Chronic Mild Stress Model

**P1.13 Laura Galvez Melero (Spain)**

A preclinical study evaluating the impact of temozolomide on affective- and cognitive-like responses in adult rats of both sexes

**P1.14 Abanoub Armanious (Australia)**

Sigma-1 receptor antagonism reduces palatable food-seeking in female rats with binge-eating history and high-fat diet exposure

**P1.15 Ana Belén Sanz Martos (Spain)**

Tributyrin reverses the deleterious effect of saturated fat on memory and plasticity in juvenile mice in a sex dependent manner

**P1.16 Antonio Pérez-Colorado (Spain)**

Chronic methylphenidate consumption during adolescence reduces parvalbumin neurons in prelimbic and disrupt long-term attentional maintenance

**P1.17 Reyes Martinez Marin (Spain)**

Behavioral Effects of Different Methylphenidate Doses on Fear Conditioning and Locomotor Activity in Adolescent and Adult Wistar Rats: Sex-Specific Differences

**P1.18 Tylah Doolan (Australia)**

Deciphering the involvement of the Paraventricular Nucleus in Oxytocin's regulation of methamphetamine addiction behaviours: A Chemogenetic Approach

**P1.19 Joel Raymond (USA)**

Stimulant solutions, sleepless nights: dexamphetamine and lisdexamfetamine suppress binge eating but disrupt sleep in female rats

**P1.20 Alice Minard (France)**

Role of the olfactory system in the vulnerability to flavored nicotine addiction in electronic cigarettes

**P1.21 Anita Sikic (Canada)**

Discriminative and proteomic effects of nicotine vs cigarette smoke extract in rats

**P1.22 Yaiza Jiménez Marín (Spain)**

Ascertaining the behavioral responses induced by different anesthetic drugs administered during adolescence in rats of both sexes

**P1.23 Spatika Jayaram (UK)**

Critical periods of development across prefrontal sub-regions: insights from magnetic resonance spectroscopy in marmosets

**P1.24 Sofia Vellere (Italy)**

Adolescent social exclusion and fear of missing out on the vulnerability to alcohol and stress-related disorders: a preclinical approach

**P1.25 Camilla Mancini (Italy)**

The role of oxytocin in mediating long-term consequences of early attachment disruption

**P1.26 Ann-Sofie Bjerre (Australia)**

Neural Signatures of Social Reward: Oxytocin and Dopamine Signalling in the Nucleus Accumbens

**P1.27 Giulia Federica Mancini (Italy)**

Late treatment with mifepristone counteracts behavioral effects of brief and repeated social isolation stress in adolescent rats

**P1.28 Neda Assareh (Australia)**

Whole brain activity mapping of the effects of a novel small molecule on chronic social isolation-induced aggression in mice

**P1.29 Oliver Tan (Australia)**

Differing neural pathways underpin divergent peripheral vasopressin actions in resident-intruder and neutral context models of aggression in isolated and group housed mice

**P1.30 Marta Pardo (Spain)**

Transgenic DAT Rat Model Reveals Vulnerability to Early Life Stress and Protective Effects of Exercise on Neurobehavioral Outcomes

**P1.31 Oritoke Okeowo (Nigeria)**

Chronic unpredictable stress alters social behavior in adult male rats: association with serotonergic and dopaminergic changes

**P1.32 Alberto Fernández Teruel (Spain)**

Neonatal handling modulates behavioral and neurobiological processes in a genetic rat model of schizophrenia: Age- and strain-dependent effects on frontocortical neuroplasticity

**P1.33 Wei-li Chang (USA)**

Neural signatures of impaired behavioral discrimination in the ventral hippocampal CA1 after early life adversity in mice

**P1.34 Víctor Ferrís Vilar (Spain)**

Effect of peripheral inflammatory insults on anxiety-like behaviour and microglial responses within the mesocorticolimbic system

**P1.35 Amber Besseling (UK)**

Effects of sex and inhibitory neuron type on fear memory suppression by extinction

**P1.36 Valeria Tarmati (Italy)**

Genotype-Dependent Functional Role of the Anterior and Posterior Paraventricular Thalamus in the Incubation of Conditioned Fear

**P1.37 Meghan McDermott (Ireland)**

The Gut Microbiota Shapes the Endocannabinoid System Throughout Development

**P1.38 Lucas Hassib Camina (Brazil)**

Involvement of Gut Microbiota in the Behavioral Therapeutic Effects of Cannabidiol in an Autism Animal Model

**P1.39 Samin Davoody (Iran)**

Gut-brain axis modulation by *Limosilactobacillus reuteri* in a maternal separation animal model of autism: exploring underlying mechanisms

**P1.40 Carla Ramon Duaso (Spain)**

Astrocyte Dynamics in Alzheimer's Disease: Unraveling Sex-, Genotype-, and Cannabinoid-Dependent Mechanisms

**P1.41 Lorena Roselló-Jiménez (Spain)**

Noradrenaline and the astrocyte-neuron lactate shuttle: The critical role of  $\beta$ 2-adrenergic receptors in glycogenolysis and object recognition memory in female mice

**P1.42 Serafina Manila Guzzo (Italy)**

Guanidinoacetate methyltransferase deficiency in mice: a window into behavioral dysfunction and RNA therapy potential

**P1.43 Amelie Essmann (USA)**

Deciphering the effects and neurochemical identity of projections into the nucleus accumbens

**P1.44 Javier Cuitavi (Ireland)**

Age-related changes in the metabolic and cognitive effects of systemic Tumour Necrosis Factor  $\alpha$

**P1.45 Yury Lages (France)**

miR-10a-5p Modulates Impulsive Choice in Rats: Insights into the Role of PI3K and the AKT/MTOR Pathway

**P1.46 Brianna Ramos (USA)**

Identifying a neurochemical signature of the paraventricular nucleus of the thalamus that predicts individual variability in cue-reward learning

**P1.47 Zuzana Pedan (UK)**

Sex differences in the role of cue-reactive nucleus accumbens neuronal ensembles in spontaneous recovery of food seeking

**P1.48 Princess Felix (USA)**

Knockdown of the glucocorticoid receptor (GR) in a corticostriatal pathway increases the propensity to attribute incentive salience to a reward cue

**P1.49 Alicja Bryk (Poland)**

Study of potential behavioral predictors of obesity phenotypes in male rats

**P1.50 Merridee Lefner (USA)**

Distinct roles for ventral tegmental area GABA and dopamine neurons underlying flexible updating of reward and punishment contingencies

**P1.51 Christakis Kagios (Sweden)**

Effects of cafeteria diet on pituitary hormones and behaviour in male Wistar rats

**P1.52 Matthew Bailey (UK)**

Inhibitory Brain Dynamics for Adaptive Behaviour: The Role of GABAergic Neurotransmission in Temporal Discrimination based Visual Perceptual Learning

**P1.53 Matthew Hilton (UK)**

The effects of selective serotonin reuptake inhibitors and beta-blockers on learning in dynamically changing environments

**P1.54 Rita El Azali (Canada)**

Individual differences in sensitivity and resistance to punished self-administration of a sweetened oral morphine solution

**P1.55 Stephanie Desrochers (USA)**

Differential engagement of top-down and bottom-up pathways in the paraventricular thalamus in sign-trackers versus goal-trackers

**P1.56 Alexandra Gregory (USA)**

Brain networks for punishment learning

**P1.57 Kendra Loedige (Canada)**

Parsing the role of Cell Adhesion Molecule 2 in externalizing traits using Pavlovian conditioning and RNA sequencing in transgenic mice

**P1.58 Zengyou Ye (USA)**

An open-source, budget-friendly tail suspension test platform with high temporal resolution for behavioral and neural correlation studies

**P1.59 Davin Peart (Canada)**

Neural substrates of potentiation of cocaine-primed reinstatement by 17 $\beta$ -estradiol in ovariectomized rats

**P1.60 Iva Tic (USA)**

TRPV1 antagonism modulates drug-seeking behavior in cocaine self-administration in male but not female mice

**P1.61 Natalia Morales Pagán (USA)**

The impact of a GLP-1 receptor agonist on cue- and drug-induced reinstatement of cocaine-seeking behavior

**P1.62 Jeanne-Laure de Peretti (France)**

Can correlated pathological oscillations in the cortex and the subthalamic nucleus predict compulsive-like cocaine seeking in rats?

**P1.63 Veronika Llerena (USA)**

PPAR-gamma agonism induces distinctive effects on cocaine-reinforced behaviour in male and female mice

**P1.64 Cristian Bis-Humbert (Spain)**

Increased vulnerability to cocaine addiction in male rats exhibiting maladaptive sucrose self-administration behavior

**P1.65 Maria Carolina Machado da Silva (Brazil)**

Disruption of immune homeostasis mediates neural and behavioral alterations induced by cocaine

**P1.66 Maria Ros (Spain)**

Effect of isolation and binge alcohol drinking in decision-making behaviour rats: study of the sex and age differences

**P1.67 Javier Orihuel Menéndez (Spain)**

A Senotherapeutic approach alleviate alcohol-induce cellular damage and reduce compulsive like alcohol consumption in mice

**P1.68 Leandro Ruiz Leyva (USA)**

Therapeutic potential of an ibogaine analog for polydrug opioid and alcohol misuse

**P1.69 Sofie van Koppen (Netherlands)**

Effects of age of onset of voluntary alcohol consumption on reward sensitivity, impulsivity, and cognitive flexibility in rats

**P1.70 Jairo Steffan Acosta Vargas (Spain)**

Long-term effects of adolescent THC-CBD vapor exposure on alcohol-related behaviour: evidence from schedule-induced polydipsia and self-administration paradigms

**P1.71 Bart Cooley (Australia)**

Satiety-related treatments on alcohol motivation and choice

**P1.72 Lauri Elsilä (Finland)**

Voluntary ethanol consumption disrupts circadian rhythm in female mice: preliminary observations exploring the utility of automated home cage monitoring

**P1.73 Lauren Ursich (Australia)**

Assessing the utility of zuranolone to modify alcohol-related behaviours

**P1.74 Esther Visser (Sweden)**

PKC- $\delta$  neurons in the central amygdala promote compulsive alcohol use

**P1.75 Carles Colom-Rocha (Spain)**

Adolescent alcohol or cocaine exposure enhances addictive-like behaviors and impairs early stages of hippocampal neurogenesis in male and female adult rats

**P1.76 Jonathan Aguirre (USA)**

Effect of ventral tegmental area dopamine neuron inhibition on stress-induced reinstatement

**P1.77 Andrea Coppola (Sweden)**

A role for social status and social status loss in alcohol-related behaviors in Wistar male and female rats

**P1.78 Keira Aubin (Canada)**

Exploring the relationship between early-life trauma, circulating endocannabinoids, and problematic cannabis use among young adults

**P1.79 Zachary Pierce-Messick (USA)**

Effect of nicotine dose and dose expectancy on puff- and bout-level analysis of smoking topography

**P1.80 Abigail Lunge (Canada)**

The impact of childhood maltreatment on the endocannabinoid system and the processing of socially relevant information in healthy humans

**P1.81 Marc D. Ferger (Canada)**

Longitudinal Changes in Endocannabinoids and Clinical Course in Adolescents with Non-Suicidal Self-Injury

**P1.82 Berta Escudero (Spain)**

Longitudinal changes in apolipoproteins correlate with alterations in cognitive decline in alcohol use disorder: a prospective cohort study

**P1.83 Luis Contreras (Canada)**

Exploring Access to Psychedelics Among Canadian Veterans: Pathways, Barriers, and Experiences

**P1.84 Rocío Rodríguez-Herrera (Spain)**

Neurofunctional Mechanisms of Behavioural Inhibition in ADHD and OCD: A Comparative Study Using the Stop-Signal Task and Resting-State Functional Connectivity

**P1.85 Sara Alaeddin (Australia)**

Can faecal microbiota transplantation improve cognitive function in mild cognitive impairment?

**P1.86 Thomas Zandonai (Italy)**

Co-prescription of anticholinergics and benzodiazepines in chronic pain patients treated with opioids: a population-based case-control study

**P1.87 Paula Banca (Spain)**

Action-sequence learning, habits and automaticity in obsessive-compulsive disorder: implications for treatment

**P1.88 Tania Romacho (Spain)**

Repurposing antidepressants for diabetic neuropathic pain: in combination or alone?

**P1.89 Páleníček Tomáš (CZ)**

The effects of Ayahuasca on inter-brain synchrony during the ritual in the Amazon – a field study

**P1.90 Tatum Sevenoaks (UK)**

The effect of caffeine consumption and acute withdrawal on mood, cognition, and resting state brain activity

**Friday, 19th September • 13:00-15:00**

**P2.1 Harry Robson (UK)**

Investigating the role of the alpha-7 nicotinic acetylcholine receptor during a signal detection task: pharmacological modulation and molecular analysis

**P2.2 Marion Annie Ponserre (Germany)**

GlyT1 inhibitor, Bitopertin redistributes the excitatory and inhibitory network connectivity in mouse medial prefrontal cortex

**P2.3 Elena Fiori (Italy)**

From prefrontal cortex to behavioral: a novel characterization of phenylalanine sensitivity in two mice models of phenylketonuria

**P2.4 Maria Llach Folcrà (USA)**

Behavioral and molecular effects of CBD in a peripartum depression mouse model

**P2.5 Zheng-Xiong Xi (USA)**

Brain CB2 Receptor: A New Target in Medication Development for Treating Opioid Use Disorder in Rodents

**P2.6 Courtney S. Wilkinson<sup>1</sup> (USA)**

Is there a role for extended amygdala dynorphin/ $\kappa$ -opioid receptor in opioid addiction-like behaviors?

**P2.7 Alexander Athanasopoulos (Australia)**

Exploring behavioural interactions between methamphetamine and psilocybin in mouse models of methamphetamine sensitization and head twitch response

**P2.8 Álvaro López Villegas (Spain)**

Effects of the 5-HT<sub>2A</sub> agonist DOI on compulsivity and reversal learning in preclinical models

**P2.9 Itziar Beruete Fresnillo (Spain)**

Characterizing the antidepressant-like effects of psilocybin in adolescent rats of both sexes

**P2.10 Judit Biosca Brull (Spain)**

Transcriptomic and metabolomic signatures of ibogaine treatment: preclinical and clinical investigation

**P2.11 Maria Asuncion Aguilar (Spain)**

Ketamine prevented the anxiety- and depression-like symptoms and the enhanced sensitivity to cocaine induced by social defeat in mice

**P2.12 Olivia Gilmore McKimm (Australia)**

Acute and enduring effects of psilocybin on EEG power spectra and sleep architecture in mice

**P2.13 Pedro Bergas-Cladera (Spain)**

Exploring the Prosocial Impact of Psilocybin in Male and Female Adult Mice

**P2.14 Annika Hästbacka Schäfer (Finland)**

BDNF/TrkB signalling in tolerance development to diazepam in mice

**P2.15 Gladys Pinto (Spain)**

Cognitive and emotional consequences of new psychoactive substances chronic use: investigation with Alkyl Nitrites (Poppers)



**P2.16 Nerea Ríos Nieto (Spain)**

Comparative Effects of Serotonergic and Glutamatergic Modulators to remediate behavioral alterations in anhedonia, anxiety and compulsivity in preclinical models

**P2.17 Satoshi Ikemoto (US)**

Reinforcing effects of nicotine in the hypothalamic supramammillary region involve activation of glutamatergic projections to the medial septum

**P2.18 Livia Wilod Versprille (UK)**

Amphetamine selectively reduces dopamine transients in the nucleus accumbens core during decision-making and distraction in a visual signal detection task

**P2.19 Roberto Alvarez (Spain)**

Psychedelics, Stimulants, and Habituation: Behavioral Effects of DOI and Amphetamine in the Earthworm *Dendrobaena veneta*

**P2.20 Maria Zelai Garçon (USA)**

Inflammatory cytokine profile in plasma and brain during chronic pain progression

**P2.21 Natalia de las Heras Martínez (Spain)**

Maternal immune activation and vulnerability to develop adjunctive behaviours in adulthood: an exploratory study

**P2.22 Antonino Casile (Italy)**

Dysregulation of the oxytocin system and disruption of social reward processing in a rat model of gaming disorder

**P2.23 Gregorio Sonsini (Italy)**

An efficient raw pixel approach for machine learning-based annotation of novel object recognition videos

**P2.24 Fernando Sánchez-Santed (Spain)**

A Systematic Review Focused on Micro-/Nano-Plastic Developmental Neurotoxicity. In Search for Common Biological Target Across Different Models

**P2.25 Michele Petrella (Sweden)**

Dissecting the role of lateral septum PKC $\delta$  neurons

**P2.26 Andrea Sepe (Italy)**

Genotype-dependent corticolimbic network differences in cue-induced fear responses: A Data-Driven c-Fos-based analysis

**P2.27 Antonio Cañete Ramírez (Spain)**

Cognitive Impairments in the RHA vs RLA rats: Insights into Schizophrenia-Related Deficits

**P2.28 Daniel Sampedro Viana (Spain)**

Neonatal Handling Enhances Exploratory and Social Behaviour, and Neuroplasticity in a genetic rat model of Schizophrenia-relevant traits

**P2.29 Antonio José Rodríguez Sánchez (Spain)**

Anodal tDCS improves anxiety-like behavior in rats with ischemic stroke

**P2.30 Bianca Bobotis (Canada)**

Sex chromosomes and sex hormones differently shape microglial properties during normal physiological conditions in the adult mouse hippocampus

**P2.31 Bianca De Filippis (Italy)**

In search of molecular signatures preceding full symptoms appearance: towards early interventions for Rett syndrome

**P2.32 Diana Cardona (Spain)**

Influence of ingestion of live microalgae rich in omega-3 acids on biochemistry, behaviour and gut microbiota in mice

**P2.33 Ketki Mulay (Ireland)**

Sex-specific effects of gut microbial depletion on adult hippocampal neurogenesis and spatial and contextual memory



**P2.34 Elena Martín-González (Spain)**

Brain metabolomic alterations in compulsive rats selected by Schedule-Induced Polydipsia

**P2.35 Ewa Litwa (Poland)**

Effects of deep brain stimulation on BDNF-ERK-CREB signaling pathway in animal model of treatment-resistant depression

**P2.36 Ezgi Selcuk Filizoglu (Spain)**

The D3 receptor knock-out mutation in dopamine deficient aphakia mice reverses activational impairments: impact on the cerebral dopamine neurotrophic factor

**P2.37 Francesca Sansó-Elle (Spain)**

Validating a preclinical model of PMDD in female Sprague-Dawley rats

**P2.38 María Ángeles Zafra (Spain)**

Conditioned Place Aversion induced by electrical stimulation of the Lateral Parabrachial Area is blocked by selective mu-opioid antagonists

**P2.39 Margarita Moreno Montoya (Spain)**

Habits Study Network in Experimental Psychology

**P2.40 Pedro Vidal (Spain)**

Time-based diminishing returns task: Effects of d-amphetamine on decision-making strategies under multiple schedules

**P2.41 Rocío Rodulfo (Spain)**

Enhancing Impulsivity Assessment in Mice: Validation of the Variable Delay-to-Signal Task

**P2.42 Blanca Cativiela Campos (Spain)**

Where you live matters: air pollution affects cognitive and emotional health along with changes in the inflammatory response during aging

**P2.43 Elena Tittarelli (Italy)**

MicroRNA-34a as a Possible Functional Marker of the Innate Freezing Defensive Response

**P2.44 Heidi Lesscher (Netherlands)**

Sleep Deprivation and risky play during early life: Implications for cognitive control in rats

**P2.45 Isabel Galiana Camacho (Spain)**

Impact of Combined Prenatal Exposure to Chlorpyrifos and Particulate Matter on Early Neurodevelopmental Outcomes in Wistar Rats

**P2.46 José Miguel Rosales Pérez (Spain)**

Impact of Maltodextrin on Gut-Brain Axis

**P2.47 Mario Ruiz Coca (Spain)**

Long-Term Effects of Prenatal Exposure to PM10 and Chlorpyrifos in Aging: Impact on Memory and Hippocampal Gene Expression in Offspring

**P2.48 Paula Matas Navarro (Spain)**

Aphakia dopamine deficient mice show anergia but not anhedonia: the role of cerebral dopamine neurotrophic factor in dopaminergic terminal areas

**P2.49 Stephanie Borgland (Canada)**

Effect of astrocyte dysfunction in the orbitofrontal cortex on goal-directed behaviour

**P2.50 Kelly Zhuang (Australia)**

A cognitive pathway to maladaptive choice

**P2.51 Amanda C. Lee (UK)**

Outcomes of CADM2 recursive splice site variation on rodent neuroimaging and ADHD-related behaviours

**P2.52 Matthew C. Broomer (USA)**

Neural representation of altered reward-seeking behavior following punishment

**P2.53 Elisa Marín-Sampietro (Spain)**

Cerebellar modulation in cocaine self-administration and drug-seeking behavior

**P2.54 Claudia Fornari (France)**

Role of progesterone on cue-induced cocaine seeking in rats

**P2.55 Giulia De Maio (France)**

Knock-down of the histone methyltransferase Prdm2 in the dorsomedial prefrontal cortex: effect on cocaine-related behaviors in male rats

**P2.56 Hannah L. Robinson (USA)**

Effects of chemogenetic modulation of the mesocorticolimbic dopamine pathway on cocaine choice

**P2.57 M. Flavia Barbano (US)**

Role of Dorsal Raphe glutamatergic neurons in cocaine-seeking behavior

**P2.58 Oscar Solis Castrejon (US)**

Synaptic zinc and dopamine dynamics in response to cocaine and locomotion

**P2.59 Abel Fabrega Leal (Spain)**

Role of cerebellum projecting neurons to the VTA in cocaine-induced conditioned memory

**P2.60 Palmira Acosta Mares (Italy)**

Impulsivity as a risk factor for Alcohol Use Disorders: Development and validation of a Go-NoGo Model of Impulsivity

**P2.61 Paula Andres Herrera (Spain)**

Inflammatory pain impairs alcohol reward processing without affecting motivation for sucrose or alcohol in female rats

**P2.62 Tetiana Kardash (Sweden)**

The role of a positive allosteric modulator of the GABAB receptor (ADX71441) on ethanol vapor dependence-induced compulsive alcohol drinking

**P2.63 Eva Bonilla González (Spain)**

Sexual dimorphism in the behavioural impact of binge drinking during adolescence

**P2.64 Francisca Carvajal (Spain)**

Modulation of binge-like consumption of ethanol and other salient reinforcers by acute DHA administration in C56BL/6J mice

**P2.65 Hannah Machet (Australia)**

Decision-making in electric barrier-induced voluntary abstinence

**P2.66 Jolanta Kotlinska (Poland)**

New preclinical research on pathogenesis of fetal alcohol spectrum disorders: The role of myelination and endocannabinoids

**P2.67 José Manuel Lerma-Cabrera (Spain)**

Neuroprotective effects of chronic DHA on ethanol intake in a mouse model of adolescent alcohol exposure

**P2.68 Leticia Lopez Valencia (Spain)**

Functional consequences of apolipoprotein AI potentiation in females exposed to intensive alcohol consumption

**P2.69 Manuela Olmedo Córdoba (Spain)**

Combined 5-HT<sub>2A</sub> Receptor Agonist and Anodal tDCS for Modulating Compulsive Alcohol Drinking in a Preclinical Model

**P2.70 Mara Morales González (Spain)**

Compulsivity and Alcohol Abuse: Sexual Dimorphism and Disruption of Social Interaction in a Preclinical Model

**P2.71 Mateo Leganes-Fonteneau (Belgium)**

Mapping acute alcohol effects on bodily sensations

**P2.72 Alice Passeri (Italy)**

The “Scar” of Early Life Adversities on Adult depressive-like behavior in humans and mice: a translational study

**P2.73 Cecilia Bergeria (USA)**

Examining the Relationship between Drug Demand, Craving, and Withdrawal during a Buprenorphine Taper among Individuals with Opioid Use Disorder

**P2.74 Darío Puertas-López (Spain)**

Learning contingencies and uncertainty: a modified probabilistic reversal learning task

**P2.75 Suky Martinez (USA)**

Emerging evidence of heterogeneity in the opioid withdrawal syndrome: spontaneous and precipitated withdrawal

**P2.76 Neus Ibáñez Sempere (Spain)**

Decision-Making in ADHD and OCD: A Transdiagnostic Approach Using the Iowa Gambling and Delay Discounting Tasks

**P2.77 Diego Ruiz (Spain)**

Variability in cognitive reserve across the aging process: structural equation modeling evidence based on rural contexts and sociodemographic determinants

**P2.78 Isabell Meier (Norway)**

Endogenous opioid modulation of safety learning in humans

**P2.79 Jose Manuel Cimadevilla (Spain)**

Differential brain activity between young and older adults associated with performance on a spatial recognition task

**P2.80 Laura Brandt (USA)**

From clinical trials to real-world impact: introducing a computational framework to detect endpoint bias in opioid use disorder research

**P2.81 Lola Rueda (Spain)**

Effects of a multi-strain probiotic on mental and emotional health in older adults: a randomized crossover study

**P2.82 María Luisa Ruiz Franco (Spain)**

Treatment of apathy in stroke patients. A systematic review

**P2.83 Thomas Zandonai (Italy)**

The Emergence of Ketamine Use as an Adjunct to Physical Exercise: A Netnographic Analysis