



WEDNESDAY, OCTOBER 2ND

8:30–9:00 Registration and welcome coffee

9:00 - 9:15 **WELCOMING SPEECH**

INTRODUCTION TO REWARD: CONCEPTS / PHILOSOPHY

CHAIR: STÉPHANIE CAILLÉ-GARNIER

9:15 - 10:00 **Serge AHMED** (Bordeaux Neurocampus, FR)
It takes two to reward

SESSION 1 THE EXPECTED AND UNEXPECTED BASES OF REWARD

CHAIR: FRANÇOIS GEORGES

10:00 - 10:30 **Stephan LAMMEL** (Berkeley - University of California, US)
Dopamine circuits in reward and aversion

10:30 - 11:00 Coffee break and posters

11:00 - 11:30 **Christelle BAUNEZ** (University of Aix-Marseille, FR)
The subthalamic nucleus: an unexpected critical node in the reward circuit

11:30 - 12:00 **Kate WASSUM** (University of California, Los Angeles, US)
Corticolimbic circuitry in reward learning and pursuit

SELECTED TALKS

CHAIR: FRANÇOIS GEORGES

12:00 - 13:00 **Giulia FOIS** - *Cocaine use the circuit of novelty to trigger plasticity in dopamine neurons*
Marcello SOLINAS - *Environmental enrichment reverses the neuroadaptations produced by escalated cocaine intake*
Enrica MONTALBAN - *Implication of Ankk1 in the regulation of food reward-based behaviors*
Marie Flavia BARBANO - *Modulation of cocaine seeking-behavior by VTA glutamatergic neurons*

13:00 - 14:30 Lunch time and posters

SESSION 2 MODELING OF REWARD

CHAIR: NICOLAS ROUGIER

14:30 - 15:15 **Angela LANGDON** (Princeton University, US)
Model-based predictions for dopamine

15:15 - 15:45 **Frederic ALEXANDRE** (Bordeaux Neurocampus, FR)
A computational model to study the dynamics of representations of rewards in the orbital and medial frontal cortex

15:45 - 16:15 **Mehdi KHAMASSI** (Sorbonne Université, Paris, FR)
Exploiting individual differences to inform computational models of dopamine in reinforcement learning.

16:15 - 16:45 Coffee break and posters

PLENARY CONFERENCE

CHAIR: PIERRE TRIFILIEFF

16:45 - 17:45 **Ivan E. DE ARAUJO** (Icahn School of Medicine at Mount Sinai, US)
Peripheral Sensory Control of Brain Reward Systems

18:00 - 20:00 Wine and cheese around the posters

THURSDAY, OCTOBER 3RD

8:30 - 9:00 Welcome coffee

SESSION 3 FUNCTIONAL AND MOLECULAR DIVERSITY OF DOPAMINE SYSTEMS

CHAIR: PIERRE TRIFILIEFF

9:00 - 9:30 **Joshua T. DUDMAN** (Janelia Research Campus, Ashburn, US)
Dopamine neuron activity and the desiderata of learning

9:30 - 10:00 **Marisela MORALES** (Biomedical Research Center, Baltimore, US)
VTA neuronal diversity and motivated behavior

10:00 - 10:30 Coffee break and posters

10:30 - 11:00 **Emmanuel VAJENT** (Institut de Génomique Fonctionnelle, Montpellier, FR)
Functional and molecular heterogeneity of D2R-expressing neurons along dorsal ventral axis in the striatum

11:00 - 11:30 **Peter VANHOUTTE** (Institut de Biologie Paris Seine, FR)
Modulation and functions of dopamine and glutamate receptor heteromers in cocaine-evoked adaptations

11:30 - 12:00 **Christoph KELLENDONK** (Columbia University, New York, US)
Ventral striatal d2 receptors and motivation

SELECTED TALKS

CHAIR: PIERRE TRIFILIEFF

12:00 - 12:45 **Claire ESCHBACH** - *Multilevel recurrent architecture for adaptive regulation of learning in the insect brain*
Frederic AMBROGGI - *Orexin in the posterior paraventricular thalamus mediates hunger-related signals in the nucleus accumbens core*
Léa TOCHON - *Lack of $\alpha 5$ nicotinic receptors increases alcohol self-administration at high dose and reverses the pattern of alcohol-induced neuronal activity in VTA and IPN*

12:45 - 14:15 Lunch time and posters

SESSION 4 PATHOLOGIES AND REWARD:

CHAIR: ANNA BEYELER / BRUNO AOUIZERATE

FACE-TO-FACE PRECLINICAL TO CLINICAL

14:15 - 15:15 Addiction:
Francis CHAOULOFF (Bordeaux Neurocampus, FR)
Neurobiological bases of the rewarding value of exercise

Diana MARTINEZ (Columbia University, New York, USA)
Imaging and treatment development for substance use disorders

15:15 - 16:15 Anxiety/Depression:
Thomas KASH (University of North Carolina, US)
Probing alcohol induced mechanisms of altered threat response

Ebrahim HAROON (Emory University, Atlanta, US)
Cortico-striatal Glutamatergic Underpinnings of Inflammation-Induced Reward Dysfunction in Depression.

16:15 - 16:45 Coffee break and posters

16:45 - 17:45 Parkinson's disease:
Pierre-Olivier FERNAGUT (University of Poitiers, FR)
Reward dysfunction in Parkinson's disease: trying to disentangle the contributions of neurodegeneration, drugs and individual vulnerability using animal models

Ignacio OBESO (Centro Integral en Neurociencias, Madrid, ES)
Dopaminergic treatment and excessive behaviours: impulse control disorders in Parkinson disease

20:00 - 23:00 Gala dinner

FRIDAY, OCTOBER 4TH

8:30 - 9:00 Welcome coffee

SESSION 5 REWARD ACROSS AGE AND SEX

CHAIR: GUILLAUME FERREIRA

9:00 - 9:30 **Martine CADOR** (Bordeaux Neurocampus, FR)
Too much sugar at adolescence: brain reward deficits at adulthood

9:30 - 10:00 **Elena CHARTOFF** (Harvard Medical School, Middleborough, US)
Sex differences in the reward-related effects of opioids in rats

10:00 - 10:30 **Cecilia FLORES** (McGill University, CA)
The reward circuitry in adolescence is still under construction

10:30 - 11:00 Coffee break and posters

SESSION 5 SOCIAL REWARD

CHAIR: CHRISTELLE GLANGETAS

11:00 - 11:30 **Jaideep BAINS** (University of Calgary, CA)
CRH^{PVN} neurons decode stress controllability and modify defensive behaviour

11:30 - 12:00 **Philippe FAURE** (Institut de Biologie Paris Seine, FR)
Individual traits and nicotine addiction

12:00 - 12:30 **Camilla BELLONE** (University of Geneva, CH)
Neural mechanisms underlying social motivation

12:30 - 12:45 Closing remarks

12:45 Lunch box



**6TH BORDEAUX NEUROCAMBUS
CONFERENCE**

