

## Convegno Monotematico SIF 2018 - GdL Dipendenze Patologiche

### INSIDE THE ADDICTED BRAIN: UNDERSTANDING THE NEUROBIOLOGY TO PROGRAM THE INTERVENTION University of Insubria, Collegio Cattaneo, via Dunant, Varese

#### Program

Thursday, May 31<sup>st</sup> 2018

13.30 – 14.15 Registration

14.15 – 14.30 Opening and Congress Presentation

14.30 – 15.30 ***New Psychoactive Substances***

Chairs: **Matteo Marti**, University of Ferrara; **Maria Antonietta De Luca**, University of Cagliari

14.30 – 14.45 **Nicholas Pintori**, University of Cagliari “Differential adaptive properties of mesolimbic and mesocortical dopamine transmission to taste stimuli, neuroinflammatory effects and behavioral correlates after repeated exposure to the synthetic cannabinoid JWH018”

14.45 – 15.00 **Luisa Ponzoni**, CNR Milano “The rewarding, prosocial and anxiolytic effects of 2,5-dimethoxy-4-bromo-amphetamine hydrobromide (DOB) and para-methoxyamphetamine (PMA) are blocked by ritanserin and SR49059 in zebrafish”

15.00 – 15.15 **Giulia Margiani**, University of Cagliari “Intravenous self-administration (IVSA) of the synthetic cannabinoid receptor agonist JWH018 in adolescent mice: neuroinflammatory sequelae in adulthood”

15.15 -15.30 **Sabrina Bilel**, University of Ferrara “Pharmaco-toxicological effects of the new synthetic opioid MT-45 in mice”

15.30 – 17.15 ***Drug and stress exposure during brain vulnerability windows***

Chairs: **Patrizia Romualdi**, University of Bologna; **Valeria Carola**, Fondazione Santa Lucia Roma

15.30 – 15.45 **Anna Brancato**, University of Palermo “Prenatal cannabinoid exposure impairs emotional memory processing and neuropeptide Y modulation of fear circuits”

15.45 – 16.00 **Valentina Castelli**, University of Palermo “Gestational cannabinoids induce alcohol vulnerability in young rat progeny: is Homer 1 a putative neurobiological feature?”

16.00 – 16.15 **Clarissa Catale**, Sapienza University of Rome “Exploring immunological and developmental effects of early life adverse experiences on the mesocorticolimbic dopaminergic system”

16.15 – 16.30 **Pamela Prini**, University of Insubria “Age-dependent effect of chronic delta-9-tetrahydrocannabinol exposure on histone modifications”

16.30 – 16.45 **Erica Zamberletti**, University of Insubria “Blocking glia activation in the adolescent but not adult brain partially ameliorates long-term behavioral deficits induced by adolescent delta-9-tetrahydrocannabinol treatment”

16.45 – 17.00 **Laura Rullo**, University of Bologna “Acute MDMA intoxication damages the striatal antioxidant activity in male and female young mice”

17.00 – 17.15 **Massimo Trombini**, University of Catania “Gestational outcome of children born to opioid-agonist treated mothers”

17.15 – 17.45 Coffee Break

18.00 – 19.00 Keynote Lecture - **Prof. Rafael Maldonado**, Universitat Pompeu Fabra, Barcelona  
“Neurobiological bases of eating addictive-like behavior”

20.30 Social Dinner at the Varese Golf Club

*Friday, June 1<sup>st</sup> 2018*

9.00 – 10.00 **Glutamatergic agents and system**

Chairs: **Cristiano Chiamulera**, University of Verona; **Fabio Fumagalli**, University of Milano

9.00 – 9.15 **Alessandro Piva**, University of Verona “The metaplastic effects of NMDA receptors blockade on reactivation of appetitive memories in rats”

9.15 – 9.30 **Lucia Caffino**, University of Milano “Long-term self-administration of ketamine reorganizes the glutamate synapse in rat prefrontal cortex and hippocampus: the contribution of a alphaCaMKII-mediated mechanism”

9.30 – 9.45 **Matteo Marti**, University of Ferrara “Motor, sensorimotor and cardiorespiratory changes induced by methoxetamine, ketamine and phencyclidine in mice”

9.45 – 10.00 **Giulia Costa**, University of Cagliari “Similarities and differences in the effects of psychoactive drugs on the emission of 50-Khz ultrasonic vocalization in the rat and role of non-dopaminergic receptors”

10.00 – 11.15 Coffee Break and Poster Session

11.15 – 12.30 **Ethanol and nicotine**

Chairs: **Roberto Ciccocioppo**, University of Camerino; **Marco Pistis**, University of Cagliari

11.15 – 11.30 **Elisabetta Gerace**, University of Firenze “Glutamate receptor-mediated neurotoxicity in an in vitro model of ethanol dependence and withdrawal”

11.30 – 11.45 **Ana Domi**, University of Camerino “Multi-dimensional characterization of an alcohol dependence-prone phenotype in rats”

11.45 – 12.00 **Mauro Congiu**, University of Cagliari “Inhibition of N-acylethanolamine-hydrolysing acid amidase suppresses nicotine-induced activation of mesolimbic dopamine transmission”

12.00 – 12.15 **Yannick Fotio**, University of Camerino “PPAR gamma activation by pioglitazone gates alcohol drinking and stress-induced reinstatement of alcohol seeking through modulation of the mesolimbic dopamine transmission in alcohol-preferring rats”

12.15 – 12.30 **Fabio Bellia**, University of Teramo “Epigenetic regulation of oxytocin receptor: parallel alterations in alcoholism and obsessive compulsive disorder”

12.30 – 13.00 Concluding Remarks and Awards

**Poster session (June 1<sup>st</sup> 10.00 – 11.15)**

- 1) **Mario Barbieri**, University of Ferrara “Acute effects in mice of a synthetic cannabinoid (JWH-073) on behavior and neuronal electrophysiological responses”
- 2) **Fabio Casarola**, University of Camerino “Modelling the individual variability to develop heroin dependence in outbred NIH Heterogeneous Stock rats”
- 3) **Francesca Caputi**, University of Bologna “Epigenetic correlates in addiction neuroplasticity: Innate and alcohol-evoked HDACS differences in amygdaloid structures of alcohol preferring (MSP) rats”
- 4) **Alice Ilari**, University of Camerino “The mixed opioid receptor agonist Cebranopadol, reduces heroin-seeking behaviors in the rat”
- 5) **Laura Padovani**, University of Verona “Reconsolidation of appetitive memory and sleep: functional connectomics and plasticity”
- 6) **Elisa Giunti**, University of Cagliari “Activity-based model of anorexia nervosa induces epigenetic alterations of the endocannabinoid system and increases dopamine levels in the nucleus accumbens of rats”
- 7) **Michele Petrella**, University of Camerino “Role of nociceptin/orphanin FQ system in nicotine consumption and seeking”
- 8) **Hong Wu Li**, University of Camerino “A role for the nociceptin/orphanin-FQ (N/OFQ) system on vulnerability of cocaine dependence showed by marchigian-sardinian alcohol preferring rats”
- 9) **Claudia Sgheddu**, University of Cagliari “Maternal delta-9-tetrahydrocannabinol biases dopamine system towards behavioral metaplasticity”
- 10) **Valeria Serra**, University of Cagliari “Synaptic changes within mesocortical circuit following early life adverse experience”
- 11) **Federica Penna**, University of Insubria “Effect of adolescent delta-9-tetrahydrocannabinol (THC) exposure on histone modifications in the brain of female and male rats”
- 12) **Marina Gabaglio**, University of Insubria “Effect of endocannabinoid tone modulation on adolescent brain refinement”
- 13) **Fulvio Plescia**, University of Palermo “Binging on alcohol and social stress in adolescence: a translational research in Sicily”