

**INTERNATIONAL PhD PROGRAM IN NEUROPHARMACOLOGY  
UNIVERSITY OF CATANIA**

**SUMMER SCHOOL OF NEUROSCIENCE (7)**  
*Settima scuola estiva di Neuroscienze (7)*

**UNDER THE AUSPICES  
OF THE FEDERATION OF EUROPEAN PHARMACOLOGICAL SOCIETIES  
(EPHAR)  
THE ITALIAN SOCIETY OF PHARMACOLOGY  
(SIF)  
AND THE ITALIAN SOCIETY OF NEUROPSYCHOPHARMACOLOGY  
(SINPF)**

**July 11-17, 2009**

**DRUG TOLERANCE AND ADDICTION:  
FROM PRECLINICAL MODELS TO CLINICAL  
MANAGEMENT**

**Catania**

**Parco degli Aragonesi Hotel  
Viale Kennedy, 2**

## **Scientific Advisory Board**

**Filippo Drago** (*Catania*)  
(Chairman)

**Eugenio Aguglia** (*Catania*)

**Pier Luigi Canonico** (*Novara*)

**Walter Fratta** (*Cagliari*)

**Donatella Marazziti** (*Pisa*)

**Giancarlo Pepeu** (*Florence*)

**Giorgio Racagni** (*Milan*)

**Maria Angela Sortino** (*Catania*)

## **Scientific Secretariat**

**Filippo Caraci** (*Catania*)

## Saturday July 11<sup>th</sup>, 2009

- 09.00-09.45** Registration
- 09.45-10.00** Opening remarks  
*Filippo Drago (Catania)*
- 10.00-11.00** Opening lecture (*introduced by Filippo Drago*)  
**Neurobiology of drug addiction**  
*Jan Van Ree (Utrecht)*
- 11.00-11.30** Welcome reception

### Drug addiction: epidemiology and genetics

- Chairman:** *Achille Caputi (Messina)*
- 16.00-17.00** Genetics of drug dependence  
*Gilberto Gerra (Parma)*
- 17.00-18.00** Gender differences in drug addiction  
*Walter Fratta (Cagliari)*
- 18.00-18.30** Discussion
- 18.30-19.30** The addiction-prone personality  
*Fabrizio Schifano (London)*
- 19.30-19.40** Questionnaire

**Sunday July 12<sup>th</sup>, 2009**

**Drug addiction: preclinical models**

*Chairman: Walter Fratta (Cagliari)*

**10.00-11.00 Neuronal pathways in drug dependence**  
*Vincenzo Perciavalle (Catania)*

**11.00-12.00 Animal models of addiction**  
*Liana Fattore (Cagliari)*

**12.00-12.30 Discussion**

**12.30-13.30 Sponsored lecture**

**Drug addiction: from neurobiology to clinics**

*Chairman: Pier Paolo Pani (Cagliari)*

**16.00-17.00 Role of learning and memory in drug addiction**  
*Riccardo Brambilla (Milan)*

**17.00-18.00 Selecting responsive subgroups using clinical and neurobiological markers in addiction**  
*Wim Van den Brink (Utrecht)*

**18.00-18.30 Discussion**

**18.30-19.30 Special Lecture:**  
**Brain stress systems in drug dependence and tolerance**  
*Pier Vincenzo Piazza (Bordeaux)*

**19.30-19.40 Questionnaire**

**Monday July 13<sup>rd</sup>, 2009**

**Cocaine**

**Chairman:** *Giorgio Racagni (Milan)*

**10.00-11.00 Cocaine addiction: neurobiological correlates**  
*Gaetano Di Chiara (Cagliari)*

**11.00-12.00 Pharmacological treatment and clinical management of cocaine dependence**  
*Pier Paolo Pani (Cagliari)*

**12.00-12.30 Discussion**

**Opioids**

**Chairman:** *Donatella Marazziti (Pisa)*

**16.00-17.00 Molecular mechanisms of opioid tolerance and dependence**  
*Paolo Nencini (Rome)*

**17.00-18.00 Clinical management of heroin addiction**  
*Icro Maremmani (Pisa)*

**18.00-18.30 Discussion**

**18.30-19.30 Psychosocial and pharmacological treatments versus pharmacological treatments for opioid detoxification**  
*Marina Davoli (Rome)*

**19.30-19.40 Questionnaire**

**Tuesday July 14<sup>th</sup>, 2009**

**Nicotine addiction**

**Chairman:** *Giancarlo Pepeu (Florence)*

**10.00-11.00 Molecular mechanisms of nicotine addiction**  
*Cristiano Chiamulera (Verona)*

**11.00-12.00 Pharmacotherapies for smoking cessation**  
*Marcus Munafò (Bristol)*

**12.00-12.30 Discussion**

**Drug addiction and psychiatric disorders**

**Chairman:** *Claudio Mencacci (Milan)*

**16.00-17.00 Addiction and bipolar spectrum disorders**  
*Eugenio Aguglia (Catania)*

**17.00-18.00 Cannabis consumption and risk of developing schizophrenia**  
*Daniele La Barbera (Palermo)*

**18.00-18.30 Discussion**

**18.30-19.30 From Dual diagnosis to Dual Services: epidemiological, clinical and psychosocial implications for an integrated approach**  
*Giuseppe Carrà (Milan)*

**19.30-19.40 Questionnaire**

Wednesday July 15<sup>th</sup>, 2009

**Cannabinoids: neurobiology and neuropharmacology**

**Chairman:** *Salvatore Salomone (Catania)*

**10.00-11.00 Neurobiology of the endocannabinoid system**  
*Vincenzo Di Marzo (Naples)*

**11.00-12.00 The role of endogenous cannabinoid system in drug addiction**  
*Daniela Parolaro (Milan)*

**12.00-12.30 Discussion**

**12.30-13.30 Sponsored Lecture**  
**Schizophrenia and drug addiction: new therapeutic proposals and new drugs**  
*Eugenio Aguglia (Catania)*

**Alcohol addiction: from neurobiology to clinics**

**Chairman:** *Renato Bernardini (Catania)*

**16.00-17.00 Neurobiology of ethanol dependence**  
*Giancarlo Pepeu (Florence)*

**17.00-18.00 Pharmacological approaches to the management of alcohol addiction: role of GABAergic medications**  
*Giovanni Addolorato (Rome)*

**18.00-18.30 Discussion**

**18.30-19.30 Special Lecture**  
**New molecular targets for the treatment of tobacco dependence: the endocannabinoid system**  
*Steven Goldberg (Baltimore)*

**19.30-19.40 Questionnaire**

**Thursday July 16<sup>th</sup>, 2009**

**Drug addiction: new mechanisms and new targets**

**Chairman:** *Maria Angela Sortino (Catania)*

**10.00-11.00 Neurotoxicity of substituted amphetamines: molecular and cellular mechanisms**  
*Francesco Fornai (Pisa)*

**11.00-12.00 Examples of drug discovery and development in alcohol dependence**  
*Giancarlo Colombo (Cagliari)*

**12.00-12.30 Discussion**

**Impulsivity in addiction: neurobiological basis and treatment options**

**Chairman:** *Daniele La Barbera (Palermo)*

**16.00-17.00 The neuropharmacology of impulsive behaviour**  
*Tommy Pattij (Amsterdam)*

**17.00-18.00 Impulsivity and neurocognitive functioning in addiction**  
*Antonio Verdejo-Garcia (Barcelona)*

**18.00-18.30 Discussion**

**18.30-19.30 Psychopharmacological treatment of impulsivity in addiction**  
*Silvio Bellino (Turin)*

**19.30-19.40 Questionnaire**

**Friday July 17<sup>th</sup>, 2009**

**Drug addiction: from neurobiology to clinics**

**Chairman:** *Francesco Fornai (Pisa)*

**11.00-12.00 Metabotropic glutamate receptors as new targets for the treatment of drug addiction**

*Ferdinando Nicoletti (Rome)*

**11.00-12.00 On substance addiction, behavioral addiction, and what lies between**

*Joseph Zohar (Tel Aviv, Israel)*

**12.00-12.30 Discussion**

**12.30-12.45 Closing remarks**

*Filippo Drago (Catania)*

**12.45-12.55 Questionnaire**