



February 22<sup>nd</sup>-23<sup>rd</sup>-24<sup>th</sup>, 2022  
3.00 - 6.00 p.m. (CET)

3<sup>rd</sup> International Scientific School



Università  
degli Studi  
di Cagliari



Fondazione  
di Sardegna

# NOVEL PSYCHOACTIVE SUBSTANCES

DIGITAL EDITION

Novel Psychoactive Substances (NPS) are a broad variety of drugs not regulated by present legislation. The advent of NPS has contributed to the appearance and growth of a new 'drug scenario' characterized by an increased number of drug users among youth and the consumption of drugs with unknown effects or safety profiles. Preclinical and clinical findings have shown that at lower doses NPS may produce effects comparable to those of illicit psychoactive drugs, such as Cannabis, heroin, cocaine and MDMA, however, with more severe consequences.

The first wave of NPS came to Europe in the early 2000s in the form of synthetic cannabinoids followed by synthetic cathinones and phenethylamines. From 2016, a rise in the availability of novel synthetic opioids (NSO) was registered in Europe. NSO are the most dangerous NPS since they mimic morphine and heroin and are many times more potent than these opioids in producing acute toxicity. Based on their increasing prevalence, it has been estimated that their use is likely to become the primary source of NPS-associated deaths in Europe.

This International Course intends to provide undergraduate and PhD students, but also health care professionals, with a unique opportunity to gain expertise in the field of NPS and NSO by an up-to-date overview of their pharmacology, structure-activity relationships, and toxicology, and the detrimental effects associated with their intake, the overall aim being that of preventing health damage.

The course is funded by the Fondazione di Sardegna and organized by Prof. Maria Antonietta De Luca of the Department of Biomedical Sciences (DiSB-UniCa).

## Chair

Maria Antonietta De Luca, PhD  
University of Cagliari | Italy

## Scientific Advisory Board

Gaetano Di Chiara, MD  
University of Cagliari, CNR | Italy

Fabrizio Schifano, MD, FRCPsych  
Psychopharmacology, Drug Misuse and NPS Research Unit, University of Hertfordshire | UK

Michael Baumann, PhD  
Designer Drug Research Unit (DDRU), NIDA, NIH | USA

## Faculty

Emilio Ambrosio, PhD  
National University for Distance Learning (UNED) | Spain

Michael Baumann, PhD  
Designer Drug Research Unit (DDRU), NIDA, NIH | USA

Valeria Catalani  
University of Hertfordshire | UK

Maria Antonietta De Luca, PhD  
University of Cagliari | Italy

Gaetano Di Chiara, MD  
University of Cagliari, CNR | Italy

Michael Evans-Brown  
European Monitoring Centre for Drugs and Drug Addiction (EMCDDA) | Portugal

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Antonis Goulas, MD, PhD  
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Swansea University | UK

Alejandro Higuera Matas, PhD  
National University for Distance Learning (UNED) | Spain

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Oslo University Hospital | Norway

Matteo Marti, PhD  
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Norbert Scherbaum, MD  
LVR-Hospital Essen, University Duisburg-Essen | Germany

Fabrizio Schifano, MD, FRCPsych  
Drug Misuse and NPS Research Unit | University of Hertfordshire | UK

Marta Torrens, MD, PhD  
IMIM-Hospital del Mar, Universitat Autònoma Barcelona and Universitat de Vic - Universitat Central de Catalunya | Spain

Marthe Vandeputte  
Ghent University | Belgium

Aviv M. Weinstein, PhD  
Ariel University | Israel

REGISTRATION AT: [infonuovedroghe@gmail.com](mailto:infonuovedroghe@gmail.com)

Please send a brief CV with affiliation

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