



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Psicobiologia dei Disturbi Comportamentali - 1

2021-3-E2401P019-T1

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#### Learning area

I: Knowledge and skills useful to understand, promote and change individual psychological functioning

#### Learning objectives

##### *Knowledge and understanding*

- to introduce the study of behavioural disorders, and specifically their biological bases and the neural correlates.
- Correlation between neurobiological aspects and psychopathology.
- different approaches, typical of psychophysiology, neuropsychology and experimental psychology

##### *Applying knowledge and understanding*

- to promote the ability to detect the pathological cognitive, emotional and behavioural functioning
- to detect the relative contribution of biological and environmental components at the basis of pathologic behaviour.

#### Contents

Genetic, neurotransmitter and anatomical aspects at the basis of the most common cognitive and behavioural disorders will be analysed.

## **Detailed program**

Research methods in psychobiology - Psychobiological bases of disorders of the nervous system - Behavioural disorders following brain lesions or neurodegenerative pathologies or sensory deprivation - Psychobiological aspects of emotional behaviour and of emotional disorders –Synaesthesia - Psychobiological aspects of sociopathy and criminal behaviour – Psychobiology of body representation and plasticity – Disorders in body representation – Psychobiology of pain and chronic pain pathologies – Psychobiology of mind-body-consciousness connection – Psychobiological aspects of nutrition and eating disorders– Psychobiological bases of near-death experience experiences

## **Prerequisites**

It is highly suggested to take this course after genetics and biology, functional neuroanatomy, physiological psychology.

## **Teaching methods**

Frontal lessons, videos, and individual learning.

Lessons will be held in presence or through online video lessons, according to the University's regulations regarding the COVID-19 emergency situation. In both cases, all lessons will be video recorded and made available to the students.

## **Assessment methods**

The exam includes a written test to be performed in a computer lab. The written test consists of 30 multiple choices questions and an open question that requires a large and critical discussion on one topic of the course. The questions are aimed at ascertaining the effective acquisition of both theoretical knowledge and the ability to connect different aspects of psychobiology. The answers to the open question will be evaluated in terms of correctness of the answers, argumentative capacity, and analytic discussion of the topics of the course. For students who request it and that have passed the written test, an oral interview will be also made available, on all the topics of the course. The final mark will be obtained by the average of the scores obtained in the written test and in the oral evaluation.

During the Covid-19 emergency, exams will be conducted according to the University's regulations regarding the COVID-19 emergency situation.

## **Textbooks and Reading Materials**

-*Psicobiologia del comportamento normale e patologico*. Papagno C. & Gallace A. (a cura di, 2014). Il Mulino: Bologna. Chapters: 3 (Comportamento emozionale patologico), 5 (Rappresentazione corporea e disturbi), 6 (Percezione del dolore), 7 (Comportamento criminale), 8 (Sociopatia acquisita), 10 (Comportamento sessuale e identità di genere), 12 (Cambiamenti cognitivi nell'invecchiamento), 14 (C'è morte oltre la vita), Appendice A (Stimolazione magnetica transcranica e trattamento dei disturbi del comportamento), Appendice B (Sinestesia).

- *Additional teaching material provided during the course*

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