



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Physiology

2223-6-H4102D039-H4102D166M

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#### Aims

Gain knowledge about:

- I) the physiology of the female genital tract and the reproductive cycle
- II) the physiological changes in maternal organ systems during pregnancy
- III) the physiological transition from intrauterine to neonatal life

#### Contents

The course will provide students with basic concepts about the physiology of pubertal development. Moreover, since the pregnancy induces significant physiological changes in order to nurture and accommodate the developing fetus, the course will provide an overview on this topic to quickly recognize any abnormalities. Finally, as the transition to life after birth is characterized by major physiological changes in respiratory and hemodynamic function, during the course will provide an overview of physiological changes of the transition at birth.

#### Detailed program

- Physiology of the female genital tract and the reproductive cycle
- Placenta: aspects of the physiology and endocrinology of the placenta; amniotic fluid physiology; fetal circulation
- Physiological pregnancy-related changes: cardiovascular system, coagulation cascade, hormonal environment
- Fundamentals of the physiology and pathology of fetal development
- Fundamentals of fetus-to-newborn period transition: the physiology
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## **Prerequisites**

Cardiovascular, pulmonary, endocrine and renal physiology

## **Teaching form**

Lectures

## **Textbook and teaching resource**

The teaching resources will be indicated as soon as possible

## **Semester**

First Semester

## **Assessment method**

The exam will take place in integrated mode with the rest of the modules of the vertical track

## **Office hours**

By appointment arranged via e-mail ([ilaria.rivolta@unimib.it](mailto:ilaria.rivolta@unimib.it))

## **Sustainable Development Goals**

GOOD HEALTH AND WELL-BEING

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