



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Disegni di studio per Ricerca Clinica

2223-1002-7

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#### Title

CLINICAL DATA SCIENCE: DESIGN

#### Teacher(s)

- Maria Grazia Valsecchi
- Luca Porcu
- Stefania Galimberti
- Andrea Callegaro
- Davide Bernasconi
- Stefano Calza
- Federico Rotolo
- Tim Friede
- Stefano Vezzoli
- Paola Rebora
- Anita Andreano
- Marco Villa
- Francesca Patarnello
- Domenico Criscuolo

#### Language

English

## Short description

### COURSE OBJECTIVES

To understand the description of different types of studies across varied settings from pre-clinical, clinical, translational to epidemiological.

### MAIN TOPICS

- Taxonomy of the study design – 6h Maria Grazia Valsecchi
- Pre-clinical study design – 4h Luca Porcu
- Early phase study design – 6h Stefania Galimberti
- Biomarker based designs – 4h Andrea Callegaro
- Sample Size Calculation – 4h Davide Bernasconi
- Adaptive designs – 4h Federico Rotolo
- Omics designs – 6h Stefano Calza
- Bayesian designs – 6h Tim Friede
- Estimands – 2h Stefano Vezzoli
- Epidemiological designs – 6h Paola Rebora (in presence)
- Registry data – 2h Anita Andreano (in presence)
- Real world study design/Epidemiology – 8h Marco Villa (in presence)
- Real world (pharmaceutical) – 4h – Francesca Patarnello
- Study PASS (Post Authorization Safety Study) and PAES (Post Authorization Efficacy Study) – 2h Domenico Criscuolo

### CFU / Hours

8/64

### Teaching period

- Sep 9th (2h) 17.00-19.00 Valsecchi - Pre-recorded video
- Sep 10th (4h) 9.00-13.00 Porcu - Pre-recorded video (9.00-11.00) + Streaming (11.00-13.00)
- Sep 14th (2h) 17.00-19.00 Valsecchi - Pre-recorded video
- Sep 16th (2h) 17.00-19.00 Galimberti - Pre-recorded video
- Sep 17th (4h) 9.00-13.00 Galimberti - Pre-recorded video
- Sep 21st (2h) 17.00-19.00 Callegaro - Streaming
- Sep 23rd (2h) 17.00-19.00 Callegaro - Streaming
- Sep 24th (4h) 9.00-13.00 Bernasconi - Pre-recorded video
- Sep 28th (2h) 17.00-19.00 Valsecchi - Streaming
- Sep 30th (2h) 17.00-19.00 Calza - Pre-recorded video
- Oct 1st (4h) 9.00-13.00 Calza - Pre-recorded video
- Oct 5th (2h) 17.00-19.00 Rotolo - Pre-recorded video
- Oct 7th (2h) 17.00-19.00 Rotolo - Pre-recorded video
- Oct 8th (4h) 9.00-13.00 Friede - Streaming
- Oct 12th (2h) 17.00-19.00 Vezzoli - Streaming
- Oct 14th (2h) 17.00-19.00 Friede - Streaming
- Oct 24th (6h) 9.00-13.00 Rebora - In presence
- Oct 24th (2h) 14.00-18.00 Andreano - In presence
- Oct 25th (8h) 9.00-18.00 Villa - In presence
- Nov 9th (2h) 17.00-19.00 Patarnello - CANCELLED

- Nov 11th (2h) 17.00-19.00 Patarnello - Streaming
- Nov 12th (2h) 10.00-12.00 Criscuolo - Streaming

## **Sustainable Development Goals**

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