



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Quantitative Approach to Biomedical Research

2526-1002-01

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#### **Titolo**

Quantitative Approach to Biomedical Research

#### **Docente(i)**

Welcome and introduction – 2h Maria Grazia Valsecchi  
Taxonomy of the studies – 2h Maria Grazia Valsecchi  
Descriptive statistics – 6h Marika Vezzoli  
Introduction to R – 4h Davide Bernasconi  
Probability, sensitivity, specificity and ROC curve – 4h Laura Antolini  
Statistical Distribution Functions – 4h Alessandra Carobbio  
Inference: confidence interval – 2h Marika Vezzoli  
Inference: hypothesis testing – 4h Maria Grazia Valsecchi  
Variable transformation – 2h Stefania Galimberti  
Analysis of Variance (ANOVA) – 2h Laura Antolini

#### **Lingua**

English

#### **Breve descrizione**

To introduce the fundamental principles and approaches of statistics in biomedical research.

## CFU / Ore

4 / 32

## Periodo di erogazione

March 31st 17.00-19.00 Maria Grazia Valsecchi - STREAMING  
April 2nd 17.00-19.00 Maria Grazia Valsecchi - PRE-RECORDED VIDEO  
April 4th 17.00-19.00 Marika Vezzoli - PRE-RECORDED VIDEO  
April 5th 9.00-13.00 Marika Vezzoli - PRE-RECORDED VIDEO  
April 7th 17.00-19.00 Davide Bernasconi - PRE-RECORDED VIDEO  
April 9th 17.00-19.00 Davide Bernasconi - STREAMING  
April 11th 17.00-19.00 Laura Antolini - PRE-RECORDED VIDEO  
April 12th 9.00-11.00 Laura Antolini - PRE-RECORDED VIDEO  
April 12th 11.00-13.00 Alessandra Carobbio - PRE-RECORDED VIDEO  
April 14th 17.00-19.00 Alessandra Carobbio - PRE-RECORDED VIDEO (17.00-18.30) + STREAMING (18.30-19.00)  
April 16th 17.00-19.00 Marika Vezzoli - PRE-RECORDED VIDEO  
**April 17th 17.00-19.00** Maria Grazia Valsecchi - STREAMING  
April 23rd 17.00-19.00 Maria Grazia Valsecchi - PRE-RECORDED VIDEO  
April 28th 17.00-19.00 Stefania Galimberti - PRE-RECORDED VIDEO  
April 30th 17.00-19.00 Laura Antolini - PRE-RECORDED VIDEO

**INDIVIDUAL COURSE EVALUATION:** June 4th 17.00-19.00

## Sustainable Development Goals

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