UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Quantitative Approach to Biomedical Research

2627-1002-01

Title

Quantitative Approach to Biomedical Research

Teacher(s)

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

Language

English

Short description

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

CFU / Hours

4 / 32

Teaching period

March 31st 17.00-19.00 Maria Grazia Valsecchi - STREAMING
April 1st 17.00-19.00 Maria Grazia Valsecchi - PRE-RECORDED VIDEO
April 3rd 17.00-19.00 Marika Vezzoli -PRE-RECORDED VIDEO
April 8th 17.00-19.00 Marika Vezzoli - PRE-RECORDED VIDEO
April 10th 17.00-19.00 Marika Vezzoli - STREAMING
April 11th 9.00-11.00 Davide Bernasconi - PRE-RECORDED VIDEO
April 11th 11.00-13.00 Davide Bernasconi - STREAMING
April 13th 17.00-19.00 Laura Antolini - PRE-RECORDED VIDEO
April 15th 17.00-19.00 Laura Antolini - PRE-RECORDED VIDEO
April 17th 17.00-19.00 Alessandra Carobbio - PRE-RECORDED VIDEO
April 18th 09.00-11.00 Alessandra Carobbio - PRE-RECORDED VIDEO
April 18th 11.00-13.00 Marika Vezzoli - PRE-RECORDED VIDEO
April 20th 17.00-19.00 Maria Grazia Valsecchi - STREAMING
April 22nd 17.00-19.00 Maria Grazia Valsecchi - PRE-RECORDED VIDEO
April 24th 17.00-19.00 Stefania Galimberti - PRE-RECORDED VIDEO
April 27th 17.00-19.00 Laura Antolini - PRE-RECORDED VIDEO

INDIVIDUAL COURSE EVALUATION: June 6th 10.00-12.00

Sustainable Development Goals