

Title	Introduction to statistics with R (part II): linear and logistic regression models
Teacher	Davide Paolo Bernasconi, Bicocca Bioinformatics Biostatistics and Bioimaging Centre - B4, School of Medicine and Surgery, University of Milano Bicocca
Language	English
CFU	1 CFU
Hours	8
Participants (min/max)	(20/40)
Short description	<p>The course aims to illustrate the fundamentals of statistical modelling with multiple covariates focusing on the linear and logistic regression models.</p> <p>At the end of the course the participants should be able to recognize when to perform a linear or logistic regression, check the validity of the assumptions required, fit the model to the data, correctly interpret the model coefficients and evaluate the goodness of fit.</p>
Calendar	<p>The course will be taught on-line and will consist of both asynchronous and synchronous moments. All the material and the Webex meeting links will be published on a dedicated page on the UNIMIB Moodle e-learning platform.</p> <p>Monday February 1st 2021 Videolectures, slides, R handouts, R practicals with datasets and codes will be loaded on the course page at 10 am. The following topics will be covered:</p> <ul style="list-style-type: none"> - Correlation and simple linear model - Multiple linear model - Introduction to generalized linear models - Logistic regression model <p>Friday February 5th 2021 Live discussion on statistical theory and implementation of the analysis in R. The event will take place on the Webex platform from 10 to 12 am.</p>
Evaluation:	The final exam will consist on multiple-choice questions. The exam will be made available on the course page from Friday February 5th at 12 am and must be completed by Tuesday February 9th at 12 pm.