



**Webinar series organized by
Free University of Bozen-Bolzano, Faculty of Engineering
April 16 and 30 April 2025**

Online event

Bioinformatics: from observation to data analysis is a webinar series aimed at introducing an audience of clinicians, biologists and bioinformaticians to recent developments in **bioinformatics** and **mathematical biology** for analysing biological, biochemical, medical, clinical and epidemiological data. With different aims and tools, bioinformatics and mathematical biology have for several years now constituted an irreplaceable support for the understanding of biological structures and their interactions, with considerable implications for medicine and the clinic.

Bioinformatics applies algorithms and statistical techniques to the interpretation, classification and understanding of huge biological datasets. Mathematical biology aims at the mathematical representation, treatment and modeling of biological processes, using a variety of applied mathematical techniques and tools. It is therefore particularly important to constantly update the public of researchers, practitioners, but also students in the branch about current studies and methodologies in these two areas. In addition to informing the audience about advances in mathematical and information sciences to support biological data analysis, the event emphasises the important connection between experimental observation, the interpretation of the resulting knowledge, and the computational techniques themselves, which not only formalise and simulate the natural processes being observed, but above all increase understanding of them and the possibility of predicting new data and dynamics surrounding these same processes. Furthermore, in addition to practitioners, the event is also aimed at master's degree students who are interested in bioinformatics and in the current state of the art about the methods to observe and conceptualize biological and medical data.

Registration

Registration is free and can be done by logging on to the following link

TBD

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