UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Microbiota in health and disease: state of the art, methodological approaches and possible applications

2627-121R-019

Title

Microbiota in health and disease: state of the art, methodological approaches and possible applications

Teacher(s)

Prof. Federica Facciotti

Language

English

Short description

The study of the microbiota, its interaction with the host and the mechanisms capable of modulating the actors involved, constitutes a prerequisite for the design of new integrated therapeutic approaches with a view to personalized medicine. Currently, the in-depth analysis of the composition and function of enteric bacterial flora and their mutual interaction has fundamental implications in the identification of signatures and functional fingerprints that can help provide better therapeutic options in different pathological contexts, such as autoimmune diseases, tumors, but also neurological pathologies. Manipulation of the intestinal microbiota could ultimately be an effective

strategy to treat, prevent or improve the therapeutic response in these pathologies. This course aims to give a methodological introduction to the study of the microbiota (through multiomics approaches) and to the possible applications in translational research and in clinics.

CFU / Hours

1 CFU / 8 hours

Teaching period

Monday, 6 September 2027, 9:00 AM – 6:00 PM

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING