UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Microbiologia Medica

1718-2-H4101D256

Aims

General Microbiology: Structure, organization, metabolism and mechanisms of replication of bacteria, viruses, fungi and protozoa. Mechanisms of transferal of genetic material among bacteria. Pathogenicity and relationship host-microorganism. Mechanisms of action of the major antimicrobial agents. Resistance to antimicrobial drugs.

Strategies for infection control and vaccine development. Systematic Microbiology: Bacteriology, Virology, Mycology and

Parasitology. General criteria for the classification of microorganisms.Microbial agents responsible for human infection and their mechanisms of pathogenicity; laboratory diagnosis and treatment/prevention of associated infectious diseases.

Contents

The acquisition of the fundamental notions on microrganisms of clinical interest (viruses, prokaryotic and eukaryotic microrganisms), microbiological characteristics and their mechanisms of pathogenicity.

Detailed program

Prerequisites

Propedeutic teachings indicated in the medical degree guide

Teaching form

Formal lessons and practical teaching in the laboratory

Textbook and teaching resource

SUGGESTED TEXTBOOKS

1. Microbiologia Medica. Giorgio Poli, Giuseppe Cocuzza, Giuseppe Nicoletti. Ed. UTET

2. Microbiologia Medica. Sherris. Ed. EMSI

3. Microbiologia Medica. La Placa. Ed. Esculapio

4. Principi di Microbiologia Medica. Antonelli, Clementi, Pozzi e Rossolini Ed. Casa Editrice Ambrosiana

5. Manuale di Virologia Medica. Dianzani, Antonelli, Capobianchi, DoleiEd. McGraw-Hill

Semester

Second Semester

Assessment method

Written and Oral Exam:

20 Multiple Choice Questions

2 Open Questions

Oral exam with written questions discussion

Office hours

On appointment