

Medical Microbiology

Lecture-Nr.: 53766

Type: practical course

Duration: 3 semester periods per week (winter)

Method of Assessment: written examination; oral exam for Erasmus students

ECTS Credit Points: 3

Topics:

Preparation of culture media, Sterilization of equipment and materials

Bacterial growth: Isolation and plating techniques

Microscopy: Morphology of bacteria and yeasts, staining methods

Growth kinetics studies: Determination of optical density, cell counting

Differentiation and identification of bacteria: Biochemical tests, selective bacterial growth media

Antibiotic susceptibility testing: Agar diffusion test, MIC determination, antibiogram

Serological tests in microbiology

Literature:

1. Kayser, F.; Böttger, E.C.; Eckert, J.; Zinkernagel, R.M.; Deplazes, P.; Haller, O.
Taschenlehrbuch Medizinische Mikrobiologie, Thieme Verlag, Heidelberg

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