

COURSE DETAIL

MICROBIAL DISEASE MECHANISMS

Country

Netherlands

Host Institution

Wageningen University and Research Center

Program(s)

Wageningen University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Health Sciences Biological Sciences

UCEAP Course Number

104

UCEAP Course Suffix**UCEAP Official Title**

MICROBIAL DISEASE MECHANISMS

UCEAP Transcript Title

MICROBIAL DISEASE

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

This course addresses the molecular biology of the interactions of humans and animals with causal agents of disease, with a focus on bacterial pathogens. This includes eukaryotic cell signaling in infection, virulence and pathogenesis mechanisms, toxins as pathogenicity factors, evasion of host defense, and the molecular analysis of host-pathogen interactions. After successful completion of this course, students are able to identify the key innate and adaptive defense mechanisms of animals, humans and plants; demonstrate understanding of the mechanisms of virulence and pathogenesis for representative bacterial pathogens; identify strategies that can be used to control, prevent, and treat infectious diseases; search scientific literature on a selected pathogen and prepare an oral presentation about mechanisms of pathogenesis; and demonstrate understanding of the experimental approaches used to investigate pathogen biology.

Language(s) of Instruction

English

Host Institution Course Number

HMI-50306

Host Institution Course Title

MICROBIAL DISEASE MECHANISMS

Host Institution Campus

Biology of Infectious Diseases of Humans and Animals

Host Institution Faculty

Host Institution Degree

Host Institution Department

Host-Microbe Interactomics

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