Practical Course in Immunology and Virology

Module coordinator
holder of the Professorship of Immune Regulation, holder of the Chair of Virology

Module offered by
Faculty of Medicine

ECTS 5

Method of grading numerical grade --

Duration Module level Other prerequisites undergraduate --

Contents
Part immunology: how antigen recognition, uptake and presentation by dendritic cells lead to induction of activation markers, transcription factors, cytokines and proliferation of CD4+ T lymphocytes. Part virology: fundamental methods to demonstrate viral infections and to recognise viral pathogenesis using the microscope.

Intended learning outcomes
Section immunology: The students acquire theoretical and practical knowledge about mechanisms that cells of the innate immune system use to sense pathogens and how this information is translated in the activation of T lymphocytes. They learn fundamental techniques of sterile cell culture, flow cytometry and confocal microscopy analysis techniques and ELISA. Section virology: Practical knowledge about the detection of viral infections and pathogenetic alterations following viral infections.

Courses
P (5) + S (1)
Module taught in: German / English

Method of assessment
a) written examination (45 to 90 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or e) presentation (20 to 30 minutes).

Students will be informed about the type and length of assessment at the beginning of the course.

Allocation of places
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Additional information
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Referred to in LPO I (examination regulations for teaching-degree programmes)
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Module appears in
Bachelor’ degree (1 major) Biomedicine (2015)
Bachelor’ degree (1 major) Biomedicine (2018)