## Module title

Practical Course in Immunology and Virology for students of biomedicine

### Abbreviation

03-98-PIMV-132-m01

## 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

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## Only after succ. compl. of module(s)

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## Duration

1 semester

## Module level

undergraduate

## Other prerequisites

Admission prerequisite to assessment: regular attendance of courses (lectures excluded) as specified at the beginning of the course.

## 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 + S (no information on SWS (weekly contact hours) and course language available)

## Method of assessment

methods of assessment: a) written examination (45 to 60 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or e) presentation (20 to 30 minutes)

## Allocation of places

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## Additional information

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## Referred to in LPO I

(examination regulations for teaching-degree programmes)

## Module appears in

Bachelor’ degree (1 major) Biomedicine (2013)