### Module title
Practical Course in Immunology for students of biomedicine

### Abbreviation
03-98-PIM-092-m01

### Module coordinator
holder of the Professorship of Immune Regulation

### Module offered by
Faculty of Medicine

### ECTS
5

### Method of grading
numerical grade

### 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
How antigen recognition, uptake and presentation by dendritic cells lead to induction of activation markers, transcription factors, cytokines and proliferation of CD4+ T lymphocytes.

### Intended learning outcomes
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.

### 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 (2009)