Module title: Cell Biology Focus immunology
Abbreviation: 03-98-PZB3-172-m01

Module coordinator: Holder of the Chair of Experimental Biomedicine II and University Hospital, Department of Dermatology, Venerology and Allergology

Module offered by: Faculty of Medicine

ECTS: 5
Method of grading: Only after succ. compl. of module(s)
Numerical grade: --

Duration: Module level: undergraduate
Other prerequisites: May not be combined with 03-98-PZB1 or 03-98-PZB2.

Contents:
Becoming familiar with basic cell biological principles via hands-on training. Major topics are: cell culture under sterile conditions; transfection of cells and basics in microscopy. In addition, gene expression analysis at RNA level by quantitative real-time PCR, identification and quantification of proteins by immunological techniques such as FACS, ELISA, Western Blot and histology.

Intended learning outcomes:
Students learn basic laboratory protocols, such as handling of adherent and non-adherent eukaryotic cells under sterile conditions, and principle techniques to analyse cellular processes. They establish own protocols for processing probes as required, and develop an understanding of the molecular basis of cell biology with a focus on inflammation and immunology.

Courses:
Type, number of weekly contact hours, language — if other than German
P (5) + S (1)
Module taught in: German / English

Method of assessment:
Type, scope, language — if other than German, examination offered — If not every semester, information on whether module is creditable for bonus
a) written examination (45 to 90 minutes) or c) oral examination of one candidate each (20 to 30 minutes).
Students will be informed about the type and length of assessment at the beginning of the course.
Language of assessment: German and/or English

Allocation of places:
Biomedizin (Biomedicine) Bachelor's: 12 places.

Additional information:
-

Referred to in LPO I:
(examination regulations for teaching-degree programmes)
-

Module appears in:
Bachelor' degree (1 major) Biomedicine (2015)
Bachelor' degree (1 major) Biomedicine (2018)