

## COURSE DETAIL

### MOLECULAR AND CELLULAR INFECTION IMMUNOLOGY

**Country**

Germany

**Host Institution**

Humboldt University Berlin

**Program(s)**

Humboldt University Berlin, Free University Berlin

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Biological Sciences

**UCEAP Course Number**

124

**UCEAP Course Suffix****UCEAP Official Title**

MOLECULAR AND CELLULAR INFECTION IMMUNOLOGY

**UCEAP Transcript Title**

MOL&CELL IMMUNOLOGY

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

## Course Description

This course introduces students to cellular and molecular immunology with physiological correlations and clinical implications. Topics include: Components of the immune system and hematopoiesis; Innate immunity: inflammation and defense against bacteria; PAMP, TLRs, cytokines, phagocytosis and antigen presentation; Acquired immunity: GOD, T-cell development, T-cell activation and self-limiting, memory and differentiation in T-cell populations, B-cells, antibodies, and their effector, tolerance and regulatory T cells; NK cells, gd T cells, NKT cells, cytokines and chemokines, defense against viruses, tumor immunology, hyper-sensitivities, allergies and autoimmunity, and transplantation immunology.

## Language(s) of Instruction

English

## Host Institution Course Number

2112QMB008L

## Host Institution Course Title

MOLECULAR AND CELLULAR INFECTION IMMUNOLOGY

## Host Institution Campus

Humboldt Univ. Berlin

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Institut für Biologie

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