

Immunology (I002622)

Course size *(nominal values; actual values may depend on programme)*

Credits 5.0

Study time 150 h

Contact hrs

50.0h

Course offerings in academic year 2022-2023

A (semester 2)

English

Gent

Lecturers in academic year 2022-2023

Vanrompay, Daisy

LA22

lecturer-in-charge

Offered in the following programmes in 2022-2023

crdts

offering

[Master of Science in Bioscience Engineering: Cell and Gene Biotechnology](#)

5

A

[Exchange Programme in Bioscience Engineering: Cell and Gene Biotechnology \(master's level\)](#)

5

A

Teaching languages

English

Keywords

Immunobiology, innate and adaptive immunity, inflammation, infectious diseases

Position of the course

Immunology

Contents

Antigens, innate immune cells, inflammation, the major histocompatibility complex, antigen presentation, tissues of the immune system, T cell mediated immunity, Immunoglobulins, antibody responses, cytokines, the complement system, pathogen recognition receptors and immune signaling pathways

Initial competences

General knowledge on cell biology, microbiology

Final competences

Conditions for credit contract

Access to this course unit via a credit contract is determined after successful competences assessment

Conditions for exam contract

This course unit cannot be taken via an exam contract

Teaching methods

Practicum, Demonstration, Lecture

Extra information on the teaching methods

Theory: lecture using power point presentations which will be made available via the electronic learning platform and also movies on immune mechanisms.

Practicals: demonstrations plus immunological assays to be performed by the student in the laboratory.

Learning materials and price

Course book (about 20 euro)

References

- 1) Immunobiology. Kenneth Murphy and Casey Weaver. 9th Edition, (2017). Garland Science Publishing. Book is also known as Janeway's Immunobiology.
- 2) Abul K. Abbas & Andrew H. Lichtman, S. Pillai (2017). Cellular and Molecular

Immunology. 9th edition. Elsevier Science/Saunders, Philadelphia.

Course content-related study coaching

Teacher and assistant available for student counselling

Assessment moments

end-of-term and continuous assessment

Examination methods in case of periodic assessment during the first examination period

Report, Written examination

Examination methods in case of periodic assessment during the second examination period

Written examination

Examination methods in case of permanent assessment

Report, Participation

Possibilities of retake in case of permanent assessment

examination during the second examination period is possible

Extra information on the examination methods

Lectures: written examination

Practical: written report

Calculation of the examination mark

Lectures: 90% and practical 10%

Students who eschew period aligned and/or non-period aligned evaluations for this course unit may be failed by the examiner.