

## Immunology (I002622)

Due to Covid 19, the education and evaluation methods may vary from the information displayed in the schedules and course details. Any changes will be communicated on Ufora.

<b>Course size</b>	<i>(nominal values; actual values may depend on programme)</i>		
<b>Credits</b> 5.0	<b>Study time</b> 150 h	<b>Contact hrs</b>	50.0 h

### Course offerings in academic year 2022-2023

A (semester 2)	English	Gent
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### Lecturers in academic year 2022-2023

Vanrompay, Daisy	LA22	lecturer-in-charge
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### Offered in the following programmes in 2022-2023

	crdts	offering
<a href="#">Master of Science in Bioscience Engineering: Cell and Gene Biotechnology</a>	5	A
<a href="#">Exchange Programme in Bioscience Engineering: Cell and Gene Biotechnology (master's level)</a>	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

Demonstration, lecture, practicum

### 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

### **Evaluation methods**

end-of-term evaluation and continuous assessment

### **Examination methods in case of periodic evaluation during the first examination period**

Written examination, report

### **Examination methods in case of periodic evaluation during the second examination period**

Written examination

### **Examination methods in case of permanent evaluation**

Participation, report

### **Possibilities of retake in case of permanent evaluation**

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.