

Immunology (I002622)

Wegens Covid19 kan mogelijk afgeweken worden van de onderwijs- en evaluatievormen. Dergelijke afwijkingen zullen via Ufora worden gecommuniceerd.

Cursusomvang	<i>(nominale waarden; effectieve waarden kunnen verschillen per opleiding)</i>		
Studiepunten 5.0	Studietijd 150 u	Contacturen	50.0 u
Aanbodsessies in academiejaar 2022-2023			
A (semester 2)	Engels	Gent	

Lesgevers in academiejaar 2022-2023

Vanrompay, Daisy LA22 Verantwoordelijk lesgever

Aangeboden in onderstaande opleidingen in 2022-2023

	stptn	aanbodsessie
Master of Science in Bioscience Engineering: Cell and Gene Biotechnology	5	A
Uitwisselingsprogramma bio-ingenieurswetenschappen: cel- en genbiotechnologie (niveau master-na-bachelor)	5	A

Onderwijstalen

Engels

Trefwoorden

Immunobiology, innate and adaptive immunity, inflammation, infectious diseases

Situering

Immunology

Inhoud

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

Begincompetenties

General knowledge on cell biology, microbiology

Eindcompetenties

1. The student possesses a broad knowledge, at an advanced level, on immunobiology in health and disease.
2. The students gains a broad knowledge on ongoing immune mechanisms in health and disease
3. The students understands the principle of a variety of immunological laboratory techniques and is able to use these insights for designing and producing immunological diagnostics.
4. the student is able to interact with peers, immunologists and other persons active in the biomedical sector as well as with the general public, concerning personal research, immunological ideas and research proposals, both written and orally

Creditcontractvoorwaarde

Toelating tot dit opleidingsonderdeel via creditcontract is mogelijk mits gunstige beoordeling van de competenties

Examencontractvoorwaarde

Dit opleidingsonderdeel kan niet via examencontract gevolgd worden

Didactische werkvormen

Demonstratie, hoorcollege, practicum

Toelichtingen bij de didactische werkvormen

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.

Leermateriaal

Course book (about 20 euro)

Referenties

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.

Vakinhoudelijke studiebegeleiding

Teacher and assistant available for student counselling

Evaluatiemomenten

periodegebonden en niet-periodegebonden evaluatie

Evaluatievormen bij periodegebonden evaluatie in de eerste examenperiode

Schriftelijk examen, verslag

Evaluatievormen bij periodegebonden evaluatie in de tweede examenperiode

Schriftelijk examen

Evaluatievormen bij niet-periodegebonden evaluatie

Participatie, verslag

Tweede examenkans in geval van niet-periodegebonden evaluatie

Examen in de tweede examenperiode is mogelijk

Toelichtingen bij de evaluatievormen

Lectures: written examination

Practical: written report

Eindscoreberekening

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.