Course: Immunology — credits: 5

Course code	BFVH23IMMUNO
Name	Immunology
Study year	2026-2027
ECTS credits	5
Language	Dutch, with parts in English
Coordinator	S.M. Nabuurs
Modes of delivery	Assignment
Assessments	Immunology - Other assessment

Learning outcomes

This module has the following learning outcomes

You study a component of the immune system and present this to an audience of your peers

You describe role and differentiation of different cell types in the human immune system and how B and T cells acquire their genetically unique receptors through gene rearrangement

You describe the mechanisms by which the innate and acquired immune system recognises and eliminates invaders

You visualise the behaviour of part of the innate or acquired immune system before and during an immune response

You use software to visualise protein/ligand interactions using an antibody-antigen pair.

DAS competencies

Competency	Level (I-IV)
Research	
Experimentation	
Development	
Management	
Advise	
Instruction	I
Leadership	
Self-management	

Content

In immunology, we take a closer look at the (human) immune system. During this module, we will learn about the many types of immune cells that keep us healthy, and the ways in which these cells work together to respond quickly to outside invaders. The differences between the innate and acquired immune system will be covered in detail, as well as how these cells learn what belongs and does not belong in the body. Some broader topics such as cell differentiation and protein-ligand binding are also covered in the context of cells in the immune system. At the end of the module, you will have worked out a case study with a project group in which you have visually represented part of the functioning of the immune system as information for your fellow students. There are also compulsory assignments covering the functioning and mechanisms of the immune system.

Included in programme(s)

Bio-Informatics

School(s)

Engineering, Life Sciences & ICT

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