

Course: Immune System

credits: 5

Course code	BOVP23MDIMMUUN	Modes of delivery	Assignment
Name	Immune System		Practical / Training
Study year	2026-2027		Tutorial
ECTS credits	5	Assessments	Biochemische Technieken - Other assessment
Language	Dutch, with parts in English		Immunologie - Computer, organised by STAD examinations
Coordinator	M.K.S. van Duijl		

Learning outcomes

You recognise and name the different components and functions of both the innate and acquired immune system.

You visualise and present in groups the different types of blood cells and their function in the human immune system as the basis of immunology.

You know and recognise the morphology and function of the different white blood cells and correctly prepare and differentiate (dift) a blood smear according to the basic rules of haematology.

You perform basic biochemical techniques SDS-PAGE and Western Blot to determine a specific protein in the blood and can explain the results obtained from both experiments.

You and a group of fellow students process the results of the research project carried out in module 1.3.1 according to the applicable guidelines for data processing and data visualisation.

DAS competencies

Competency Level (I-IV)

Research I

Experimentation I

Development

Management I

Advise

Instruction I

Leadership

Self-management I

Content

This module introduces you to the immune system and the main cells and proteins (such as antibodies) that play a role in it. The immune system is important in your body, but you also use parts of the immune system in some important experiments in the lab. For example, you use antibodies to detect a protein in a Western blot. Therefore, you will not only learn about the immune system in the body, but also how to use immunology in biochemical techniques.

You will also continue with the research project and individual report from module 1.3.1. During this module, you will have a working lecture on data processing and data visualisation. During the tutorial, you will work with your own data to process and display it properly. The product is a poster that you will present in module 1.3.3.

Included in programme(s)

Major Medical Diagnostics

School(s)

Engineering, Life Sciences & ICT