Course: Clinical Immunology — credits: 5

Course code	BOVH25CLIMMUNOL
Name	Clinical Immunology
Study year	2025-2026
ECTS credits	5
Language	English
Coordinator	P.M. Dammers
Modes of delivery	Assignment Lecture
Assessments	Clinical Immunology - Computer, organised by STAD examinations Therapeutic Applications - Other assessment

Learning outcomes

- You can identify the various immunological aspects relating to hypersensitivity reactions (including allergies), autoimmune diseases and vaccines, and understand the possible immunological mechanism, the experimental models, the possible (immuno)therapeutic treatments, and the role of gender and age in their development and explain these in the scientific context according to the teaching material provided and the textbook used.
- By means of scientific literature, you will research a case study concerning an (advanced) immunotherapeutic application or development and report on this through an oral presentation to classmates.

Content

The immune system is a network of immune cells, and specialized organs and tissues that protects an organism from foreign agents. In some cases, however, the immune system can also react to harmless substances causing allergies, or it might turn itself against the host leading to autoimmune diseases. Clinical immunology is the study of diseases caused by disorders of the immune system. It also involves diseases where immune reactions play a part in the pathology and clinical features. In this module, these pathological immune reactions are central. The different hypersensitivity reactions will be discussed, including the immunological characteristics and (immuno)therapies. Knowledge is also acquired on autoimmunity from pathobiology (examples, local/systemic, etc.), to causes and (immuno)therapies. The role of regulatory T cells in autoimmunity is also discussed. In addition, attention is paid to the relationship between autoimmune disease susceptibility and gender/immune senescence (ageing). Furthermore, different type of vaccines will be discussed.

Included in programme(s)

LST Exchange minor Medical Biology
Minor Medical Biology

School(s)

Institute for Life Science & Technology

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