Hanze

Course: Visualisation of Cells and Tissues — credits: 5

Course code	BOVP23RVISUAL
Name	Visualisation of Cells and Tissues
Study year	2023-2024
ECTS credits	5
Language	Dutch, with parts in English
Coordinator	D. den Os
Modes of delivery	Lecture Practical / Training Tutorial
Assessments	Cellen en Weefsel - Other assessment Microscopie Theorie - Computer, organised by STAD examinations

Learning outcomes

This module has the following learning outcomes:

You independently report on experiments performed in a biomedical laboratory using a digital logbook according to the guidelines of the study programme;

You independently create a correct microscopic image (light microscope, inverted microscope, phase contrast) from various biological materials using the protocols provided in a biomedical laboratory;

You have knowledge of the operation of different types of microscopes used in a biomedical laboratory and can determine the resolution and know the limits of the different microscopes;

You name and recognise (microscopically) the main groups of organisms and the cells, tissues and organs they consist of according to current scientific insights and at the level described in the BOKS.

DAS competencies

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

Content

Microscopy is an important technique in medical and biological laboratory research. There are many different types of microscopes, each with its own field of application and associated techniques. In this module, you will use a light microscope in the practical. A light microscope is not a 'plug-and-play' instrument. To perform microscopy properly, it is important to understand the properties of the instrument. For this, you will receive applied theory lessons in geometrical and physical optics. In addition, in biology lessons you will learn more about the different cells, tissues and organs of the animal and plant kingdom.

When working in the laboratory, you must always document exactly what you did and how you worked out the results of your experiments. To do this, you learn to use a digital logbook (e-labjournal).

Included in programme(s)

Major Biology and Medical Research

School(s)

Institute for Life Science & Technology

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