Course: Biochemistry — credits: 10

Course code	BOVH24RBIOCHEMIE
Name	Biochemistry
Study year	2026-2027
ECTS credits	10
Language	Dutch, with parts in English
Coordinator	M.J.J.B. Sibbald
Modes of delivery	Lecture Practical / Training Tutorial
Assessments	Biochemie Theorie - Computer, organised by STAD examinations Practicum Biochemie in Gisten - Other assessment

Learning outcomes

This module encompasses the following learning outcomes in Biochemistry:

- You possess specialized knowledge about enzymes and their functioning (kinetics) linked to metabolism in the context of both primary and secondary metabolism;
- You visualize organelles in fungi using a fluorescence microscope and process the results using ImageJ/FIJI, documenting this in a labjournal following the provided guidelines;
- You demonstrate gene expression in fungi using Western blotting and document this in a labjournal following the provided guidelines;
- You determine enzyme kinetic parameters using spectroscopic methods, select the appropriate statistical model to analyze the results, and document this in a labjournal following the provided guidelines;
- You explore choices within the program through activities such as the Minors Fair and Master's Information Sessions.

Content

In this module, you will deepen your biochemical knowledge within primary and secondary metabolism. The acquired knowledge will be assessed in a written exam. Subsequently, you will apply the concepts of enzyme kinetics in a practical component by employing statistical methods. By utilizing data visualization, you can develop skills that assist in processing and analyzing images. These skills are then applied in a practical component.

Included in programme(s)

Major Biology and Medical Research

School(s)

Engineering, Life Sciences & ICT

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