

**Course: Biochemistry**

credits: 10

<b>Course code</b>	BOVH24RBIOCHEMIE	<b>Modes of delivery</b>	Lecture
<b>Name</b>	Biochemistry		Practical / Training
<b>Study year</b>	2025-2026		Tutorial
<b>ECTS credits</b>	10	<b>Assessments</b>	Biochemie Theorie - Computer, organised by STAD examinations
<b>Language</b>	Dutch, with parts in English		Practicum Biochemie in Gisten - Other assessment
<b>Coordinator</b>	M.J.J.B. Sibbald		

**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)**

Institute for Life Science & Technology