Vak: Preparatory Course Omics 1 — credits: 5

Vakcode	BFVM23PREPOMICS
Naam	Preparatory Course Omics 1
Studiejaar	2026-2027
ECTS credits	5
Taal	Engels
Coördinator	-
Werkvormen	Werkcollege Zelfstudie
Toetsen	Preparatory Course Omics 1 - Schriftelijk, eigen organisatie

Leeruitkomsten

1. You can understand basic physiological processes.
1. You know the core components of both prokaryotic and eukaryotic cells and knows your role in the context of cell biology.
1. You know all the actors and components of the Central Dogma of Genetics and can describe what these are and what their role is.
1. You know the types of biological sequences, their characteristics, and their relationships.
1. You can understand basic concepts of laboratory "omics" techniques.
1. You know about the main methods used to analyse sequences.

Inhoud

Overview
You will be introduced to basic (animal) physiology, cell biology, and molecular genetics – primarily the Central Dogma. Also, the different types of biological sequences will be introduced; their properties, and ways of analyzing them (alignment, mapping, Blast).
Context learning line
This is one of the three optional modules of the Preparatory course. It’s intended for students without a background in (molecular) life science (e.g. ICT students). The content provides a base for annotating and understanding biological data.

Opgenomen in opleiding(en)
Master Data Sciences for the Life Science

School(s)
Engineering, Life Sciences & ICT

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