Hanze

Course: Project Molecular Biology — credits: 5

Course code	BOVP23RPRJMOLBIO
Name	Project Molecular Biology
Study year	2023-2024
ECTS credits	5
Language	Dutch, with parts in English
Coordinator	P.M. Korthuis
Modes of delivery	Assignment Practical / Training Project-based learning
Assessments	Project Moleculaire Biologie - Other assessment

Learning outcomes

This module has the following learning outcomes:

You work in a team on a molecular biological project in which you recognise, realistically prioritise, distribute, execute and evaluate tasks;

You make a realistic planning as part of a team and present it to peers in a scientific manner that clearly shows the purpose and background of your project, making the link with the field;

You understand the principle of important molecular basic techniques and apply them correctly within a project in a biological or medical laboratory;

You process the acquired data of a project with molecular techniques and analyse them in a scientific way and make them understandable by means of a presentation of a scientific poster.

DAS competencies

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

Content

In this module, students will apply the home-made molecular techniques from the module "Molecular lab techniques" during a project that ties in with the theory of the module "The central dogma". Examples include "Expressing GFP in an E. coli and demonstrating it on SDS-PAGE" and "Determining rhesus factors in blood using PCR". Techniques used include SDS-PAGE and PCR and the project will deal with at least one of the macromolecules and/or with the central dogma. During the project, the student will receive instruction from a supervisor and will then work in groups to develop a plan of action that includes the associated theory and a clear schedule of how to approach the experiment in the lab. With the help of a supervisor, the group must come up with this planning themselves and sign up for practical days (4 x half-day sessions) to carry out the experiment. After the execution, the results are presented to each other via a scientific poster at a mini-symposium.

Included in programme(s)

Major Biology and Medical Research

School(s)

Institute for Life Science & Technology

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