

Vak: Molecular Biology 1

credits: 3

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| Vakcode | BOVH20RMOLBIO1 | Werkvormen | Hoorcollege |
| Naam | Molecular Biology 1 | | Werkcollege |
| Studiejaar | 2022-2023 | | |
| ECTS credits | 3 | Toetsen | Molec. Biologie 1 - Computer, organisatie ToetsCentrum |
| Taal | Engels | | |
| Coördinator | J.A. Komduur | | |

Leeruitkomsten

The student can describe in detail:

- how CrispR-Cas functions in virus defence and how it can be used in mutagenesis
- how RNAi functions and how it is used in gene silencing techniques
- some *E. coli* strains and plasmids, and how they are used in modern molecular biologic laboratories
- how organisms can genetically be modified
- selected second and third generation sequencing techniques
- how DNA is modified and multiplied and can suggest ways to improve the reaction
- how mRNA can be quantified using qPCR
- how epigenetic regulation functions
- selected ways of how gene expression and the function of proteins can be determined.

Inhoud

Molecular biology 1 will give the student an overview of modern methods and techniques that are used in molecular biological laboratories.

Literature: the teachers will supply URL's of articles that are necessary.

Opgenomen in opleiding(en)

Major Biologie en Medische Research

School(s)

Instituut voor Life Science & Technology