Vak: Introduction Medical Diagnostics — credits: 5

Vakcode	ELVH20GIMD
Naam	Introduction Medical Diagnostics
Studiejaar	2024-2025
ECTS credits	5
Taal	Engels
Coördinator	J. Zijlstra
Werkvormen	Onderwijs
Toetsen	Introduction Medical Diagnostics - Schriftelijk, organisatie ToetsCentrum

Leeruitkomsten

The student:

- recognizes the chemical structure and describe the biological properties and function of important macromolecules (saccharides, lipids, proteins, nucleic acids);
- understands the central biological dogma of DNA – RNA – protein, and evaluate the benefits and restrictions of DNA versus protein analysis;
- explains the principles of elementary separation techniques (extraction, centrifugation, electrophoresis, chromatography);
- explains the principles of bio-specific recognition of macromolecules (staining, enzymatic assays, immunoassays, hybridizing DNA probes);
- describes the common used detection techniques and principles (spectrometry, fluorescence, chemiluminescence, radiography);
- summarizes important immuno-assays, and constructs a flow-chart for the detection of a hormone with ELISA technique;
- summarizes important molecular assays (including DNA sequencing), and constructs a flow-chart for the detection of a genetic mutation with PCR technique.

Inhoud

Introduction in the principles of biochemical and molecular biological techniques for the measurement of molecules and cells in patients

Opgenomen in opleiding(en)

Exchange Biomedical Engineering (autumn)
Minor Biomedical Engineering

School(s)

Instituut voor Engineering

share your talent. move the world.

De ECTS onderwijscatalogus van de Hanzehogeschool Groningen wordt met de grootst mogelijke zorg samengesteld. Het is echter mogelijk dat de inhoud van de catalogus -en de daarin vervatte informatie- verouderd, incompleet of onjuist is. Aan de inhoud van de catalogus kunnen dan ook geen rechten worden ontleend.