



Faculty of Medicine

BIMB50, Frontiers in Translational and Molecular Medicine, 22.5 credits

First Cycle

General Information

The course is compulsory in the Biomedicine programme and included in semester 5.

Language of instruction: English

Learning outcomes

Knowledge and understanding

On completion of the course, the students shall be able to

- explain and integrate molecular, cellular and physiological aspects of diseases, for example within cardiopulmonary medicine, neurology, infection/immunology, endocrinology and oncology
- give examples of possibilities and limitations with new therapies to treat and/or prevent the onset of diseases in, for example, cardiopulmonary medicine, neurology, infection/immunology, endocrinology and oncology

Competence and skills

On completion of the course, the students shall be able to

- synthesize and present information from original research and review articles within the course topics and put this information in a medically relevant context
- formulate hypotheses with a scientific basis in disease progression and treatment, with the aim to develop new diagnostic, prognostic and/or therapeutic methods
- apply constructive feedback in accordance with a scientific peer-review process
- review, evaluate and prioritize research programs similar to the process in research funding review groups
- identify society's need for biomedical research and communicate results and significance to the public

- behave with a professional approach, respect the contributions of others to discussions about translational and molecular medicine as well as meet given deadlines

Judgement and approach

On completion of the course, the students shall be able to

- appraise the benefits, risks and ethical aspects of new treatment methods such as gene and stem cell therapy, biological drugs and precision medical treatments
- evaluate the needs and consequences of translational and molecular research in relation to the global sustainability goals

Course content

During the 13 weeks course, students work integrated with current research results in, for example, cardiopulmonary medicine, neurology, infection / immunology, endocrinology and oncology. The applications during the course include the writing of a review article and a research program focused on the course areas. During the course, students will also apply various strategies to inform the public about the current state of knowledge in translational and molecular medicine and to apply feedback according to a scientific review procedure.