BB2290 Molecular Biomedicine 7.5 credits

Molekylär biomedicin

This is a translation of the Swedish, legally binding, course syllabus.

If the course is discontinued, students may request to be examined during the following two academic years

Establishment

Course syllabus for BB2290 valid from Autumn 2007

Grading scale

A, B, C, D, E, FX, F

Education cycle

Second cycle

Main field of study

Biotechnology

Specific prerequisites

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

The aim of the course is to provide the students an overview of the use of molecular technologies in medicine. Invited lectures will present recent scientific achievements in infectious and complex diseases including cancer.

After completed course the students will be able to

• describe current technological trends in medical applications

• discuss research trends in different diseases

• suggest suitable technological approach for a molecular investigation of a disease

• participate in an scientific discussion relating to biomedicine

• critically evaluate the results from scientific publications

Course contents

The course is focused on the use of molecular technologies in biomedical research. The lectures will cover different areas of biomedicine and will include an introduction to the particular field and the current use of modern methods for analysis and detection of respective biomolecules. The lectures will be held by experts in their specific field. The course will include a project assignment in a selected biomedical field.

Course literature

Molecular Medicine 3rd edition, R. Trent, ISBN: 978-0-12-699057-7, ISBN10: 0-12-699057-3

textbooks.elsevier.com/web/product_details.aspx?isbn=9780126990577

Examination

• TEN1 - Examination, 7.5 credits, grading scale: A, B, C, D, E, FX, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

Other requirements for final grade

Written exam (TEN1; 7,5 credits, grading scale A-F).

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.