



**Karolinska
Institutet**

Course syllabus for

Morphological methods and diagnosis, 7.5 credits

Morfologi - metodik och diagnostik, 7.5 hp

This course has been cancelled, for further information see Transitional provisions in the last version of the syllabus.

Please note that the course syllabus is available in the following versions:

Spring2008 , Spring2009 , Spring2010 , Spring2011 , Spring2013 , Spring2014

Course code	1BA008
Course name	Morphological methods and diagnosis
Credits	7.5 credits
Form of Education	Higher Education, study regulation 2007
Main field of study	Biomedical Laboratory Science
Level	G2 - First cycle 2
Grading scale	Pass with distinction, Pass, Fail
Department	Department of Laboratory Medicine
Decided by	Programnämnden för Biomedicinska analytikerprogrammet
Decision date	2008-10-27
Revised by	Programnämnden för Biomedicinska analytikerprogrammet
Last revision	2008-10-29
Course syllabus valid from	Spring 2009

Specific entry requirements

General entry requirements for higher education. In addition, specific entry requirements that are stated in the programme syllabus of the Biomedical laboratory science education. Completed courses in Laboratory diagnostics, Basic laboratory methodology, Analytical chemistry and biochemical methodology, Instrumental technique including Radio physics, Cell culture, and passed courses in the Structure, function and dysfunction of the human body 1-3, or the equivalent knowledge.

Objectives

The course should give the student theoretical knowledge and practical skills to be able to distinguish normal tissue from tumour tissue, and from pathological tissue in general, such as e.g. inflammations. The course should give the student theoretical knowledge and practical skills to be able to produce cell and molecular tissue preparations for selected microscopical methods. On completion of the course, the student should be able to: - account for the histological structure of the human body - account for diseases such as inflammation and neoplasia - microscopically identify the different tissues and organs

of the human body - microscopically identify diseases such as inflammation and neoplasia - account for the importance of diagnostic morphology within clinical laboratory medicine - practically produce cell and molecular tissue preparations for microscopical examinations - account for methods to production of cell and molecular tissue preparations for microscopical examinations - account for the importance of morphological methodology within clinical laboratory medicine

Content

Application of methods to be able to microscopically examine tissues and cells from different locations in the human body,. Diagnostics of cell and tissue preparations from normal and tumour tissue, and other medical conditions such as e.g. inflammations. The course is divided in the following parts: Part 1: Diagnostic morphology (3.0 HE credits) Diagnostic morphology Part 2: Methods in morphology, practical (1.5 HE credits). Methods in morphology, practical Part 3: Methods in morphology, theoretically (3.0 HE credits). Methods in morphology, theoretically

Diagnostic morphology, 3.0 hp

Grading scale: VU

Methods in morphology, practical, 1.5 hp

Grading scale: VU

Methods in morphology, theoretical, 3.0 hp

Grading scale: VU

Teaching methods

The teaching is given as study visits, lectures and joint laboratory sessions on the production of cell and tissue preparations for microscopical examination. The student should document laboratory parts in a personal workbook.

Examination

Part 1 is examined through an integrated practical and theoretical test (3.0 HE credits). Part 2 is examined through approved laboratory sessions (1.5 HE credits). Part 3 is examined through a written examination (3.0 HE credits) When a student fails the examination, a date for a new examination is determined by agreement with the student and the teacher. The laboratory sessions are compulsory. A make-up laboratory session is provided and scheduled. An additional make-up laboratory session is provided in the next regular course. Students who have not passed the regular examination are entitled to participate in five more examinations. If the student is not approved after four examinations, he/she is recommended to retake the course at the next regular course date and may, after that, participate in two more examinations. If the student has failed six examinations/tests, no additional examination or new admission in the course is given. The number of times that the student has participated in one and the same examination is regarded as an examination session. Submission of a blank examination is regarded as an examination. An examination for which the student registered but not participated in, will not be regarded as an examination.

Other directives

Course evaluation will be carried out in accordance with the guidelines established by the Board of Education.

Literature and other teaching aids

Brockstedt, Ulrika

Labkompendium. 2009

Gartner, Leslie P

Color atlas of histology

Hiatt, James L

4. ed. : Philadelphia : Lippincott Williams & Wilkins, cop. 2006 - xv, 439 s.

ISBN:0-7817-9828-0 LIBRIS-ID:9873919

[Library search](#)

Stevens, Alan; Lowe, James

Pathology

2. ed. : Edinburgh : Mosby, 2000 - 656 s.

ISBN:0-7234-3160-4 (main ed.) LIBRIS-ID:8302893

[Library search](#)

Ringsrud, Karen Munson; Linné, Jean Jorgenson

Linné & Ringsrud's Clinical laboratory science : the basics and routine techniques

Turgeon, Mary L.

5. ed. /b [editor] Mary L. Turgeon : St. Louis, Mo. : Mosby Elsevier, cop. 2007 - xiv, 608 s.

ISBN:0-323-03412-8 LIBRIS-ID:10255799

[Library search](#)

Theory and practice of histological techniques

Bancroft, John D.; Gamble, Marilyn

5. ed. : London : Churchill Livingstone, 2002 - xiii, 796 s.

ISBN:0-443-06435-0 LIBRIS-ID:4944043

[Library search](#)