UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Fundamentals of Human Morphology

2425-1-H4102D087

Aims

The student will be able to communicate effectively with colleagues and to use and understand anatomical language appropriately. Knowledge of accepted general anatomical terminology will be achieved.

The general features of the systems further described in detail in “Cardiovascular and Respiratory diseases” and “Neuroscience I and II” will be addressed. Specific reference to clinical anatomy features will also be performed.

Students will be able to describe the structure and ultrastructure of the eukaryotic cell and the morphology correlate with the function of each organelle; then they will be able to describe the structure and morpho-functional characteristics of human tissues (epithelial, connective, muscle and nervous tissues) as well as to describe the main events of gametogenesis and early embryogenesis.

The student will be able to indicate the normal microscopic organization of the main organs of the human organism. The microscopic and functional structure of the organs of the digestive, respiratory, urinary, genital, lymphatic, nervous, endocrine and integumentary organs will be addressed in preparation to histopathological assessment.

Contents

Students will be introduced to:

- principles of histology, embryology, and regional anatomy;

- general principles of systematic anatomy

- use of the light microscope and organ recognition

- clinical Anatomy

Lessons contents will be supported by the activities of Clerkship 2, modules “Histology” e “Regional anatomy”

Detailed program

Detailed program is available under the section of each module

Prerequisites

College-level scientific knowledge

Teaching form

The course is organized into 4 four teaching units (cytology/histology/embryology, general anatomy, regional anatomy and microscopic anatomy) and includes frontal lessons, interactive lessons and practical activities, in attendance (see each syllabus for details).

Textbook and teaching resource

See each module for specific textbooks and resources

Semester

1st + 2nd terms

Assessment method

At the end of 1st term an intermediate optional written test (20 multiple choice quizzes) will be done on cytology, embryology, and histology topics discussed during the first term. Each student will be assigned a judgment based on the number of correct answers (0-10=fail; 11-12=sufficient; 13-15=fair; 16-17=good; 18-19=very good; 20 excellent). At the end of the second term, to be admitted to the practical and oral final examination, a pass should be obtained on another (not optional) written test, that will be performed on the same day (20 multiple choice questions; the threshold to be admitted to the practical and oral examination is 11/20.
This test will explore the knowledge of all modules of the "Fundamentals of Human Morphology"; course (5 questions on histology/cytology/embryology, 5 on microscopic anatomy, 5 on regional anatomy, 5 on general anatomy). In case the student will have passed the intermediate test, the 5 questions on cytology, histology and embryology will be excluded in this written test and the threshold, in this case, is 8/15).
Once passed the written test, students can be admitted to the practical and oral final examination. For those students WHO DID NOT PASS the intermediate written test, the exam will be on the parts of the

program concerning cytology, embryology, histology, microscopic, regional and general anatomy. For those students who PASSED THE INTERMEDIATE TEST, the exam will be focused on microscopic anatomy, regional and general anatomy; however, the students have to prove their knowledge on the first term topics, if requested (e.g. while describing the microscopic anatomy of the cartilage, students might be asked to explain the histology of the tissue).
In the first part of the practical and oral final exam, beside cytology, histology and embryology (for those who DID NOT PASS THE INTERMEDIATE TEST), all students will be tested for the description/recognition of one slide observed at the light microscope, belonging to the systems described during the course of microscopic anatomy.
After passing this oral examination, each student will be assigned a judgment (not passed; sufficient; fair; good, very goodAnd will be admitted to the second and final oral examination: all the topics of General and Regional Anatomy enlisted in the syllabus will be tested, also exploiting the digital anatomy visualization and virtual dissection AnatomageTM table. If students pass also this part, they will receive a final mark (from 18 to 30L) considering all parts of the exam.

The intermediate test can be taken twice, the evaluation will be final and cannot be rejected.
If students do not pass the final exam, the whole exam is to be taken again (i.e. final written and oral examinations).

Office hours

See each module for information.

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING | GENDER EQUALITY | REDUCED INEQUALITIES