

UNIVERSITÀ DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Patologia Generale

1920-1-I0201D127-I0201D034M

Aims

The course is intended to provide students with fundamental concepts on pathology and genetics relevant for their professional field

Contents

PATHOLOGY: Homeostasis and disease. Etiology and pathogenesis: disease-causing agents. Acquired and innate immunity. The immune response. Cell and tissue damage. Inflammation and tissue repair. Oncology. GENETICS: Organization of the human genome. Cell cycle, mitosis and meiosis, gametogenesis and Sex-determination. Mutations and polymorphisms. Inheritance of mendelian traits. Classification of human Genetic Disorders and examples.

Detailed program

PATHOLOGY: Homeostasis and disease. Etiology and pathogenesis: disease-causing agents. Acquired and innate immunity. Cells, tissues and organs of the immune system. Cell and tissue damage. Inflammation and tissue repair. Cellular growth alterations. Oncology. GENETICS: Organization of the human genome (chromosomes and genes). Cell cycle, mitosis and meiosis, gametogenesis and Sex-determination. Genetic code, mutations, polymorphisms and their impact on proteins. Inheritance of mendelian traits and pedigrees. Classification of human Genetic Disorders (chromosomal, mendelian and non mendelian disorders). Examples of genetic diseases: cystic fibrosis and muscular dystrophies.

Prerequisites

- DNA structure and replication - The flow of genetic information from DNA to protein - Gene expression regulation

Teaching form

ex cathedra lessons

Textbook and teaching resource

PATOLOGIA GENERALE: Pontieri G.M., Elementi di Patologia per i corsi di Laurea in Professioni Sanitarie, III Edizione, Piccin GENETICA: Dallapiccola B., Novelli G., Genetica Medica essenziale, 2012, CIC Edizioni Internazionali

Semester

I year II Semester

Assessment method

Multiple Choice Test

Office hours

Upon request