



MEDICAL GENETICS

Enrollment year	2021/2022
Academic year	2021/2022
Regulations	DM270
Academic discipline	MED/03 (MEDICAL GENETICS)
Department	DEPARTMENT OF PUBLIC HEALTH, NEUROSCIENCE, EXPERIMENTAL AND FORENSIC MEDICINE
Course	DIETISTIC
Curriculum	PERCORSO COMUNE
Year of study	1°
Period	(04/10/2021 - 21/01/2022)
ECTS	1
Lesson hours	8 lesson hours
Language	Italian
Activity type	WRITTEN TEST
Teacher	MINELLI ANTONELLA - 1 ECTS
Prerequisites	Good knowledge of Biology and Genetics, particularly to the physical and chemical aspects of the genome, its expression and about the variations it may present.
Learning outcomes	To know the role of Medical Genetics in its application to clinical practice, to know Mendel's laws and their meaning, to know the mode of transmission of Mendelian characters / pathologies in humans, to know how to design the crosses starting on the genotypes and to predict the risk of recurrence, knowing how to recognize the mode of transmission of pathologies in families through family trees.
Course contents	? Introduction to Medical Genetics ? Terminology of Genetics ? Character transmission: Mendel's 1st and 2nd law (main aspects) ? Genetic diseases and their classification

? Mendelian inheritance in humans: family trees as a method for studying the transmission of characters, and factors conditioning their passage through the generations
? Inheritance autosomal recessive, autosomal dominant, recessive associated with the X chromosome, dominant associated with the X chromosome: characteristics observable in family trees, assignment of genotypes in affected and unaffected persons, calculation of the recurrence risk.

Teaching methods

Lectures

Reccomended or required readings

Clementi M. Elementi di Genetica Medica, EdiSES Editore

Assessment methods

Written exam with multiple choice quiz; problems relating to the interpretation of family trees

Further information

Sustainable development goals - Agenda 2030

[\\$lbl legenda sviluppo sostenibile](#)