



GENETICS

Enrollment year	2020/2021
Academic year	2020/2021
Regulations	DM270
Academic discipline	BIO/11 (MOLECULAR BIOLOGY)
Department	DEPARTMENT OF PUBLIC HEALTH, NEUROSCIENCE, EXPERIMENTAL AND FORENSIC MEDICINE
Course	NURSING AND MIDWIFERY SCIENCES
Curriculum	PERCORSO COMUNE
Year of study	1°
Period	(16/11/2020 - 05/02/2021)
ECTS	2
Lesson hours	16 lesson hours
Language	Italian language
Activity type	WRITTEN TEST
Teacher	MINELLI ANTONELLA (titolare) - 2 ECTS
Prerequisites	Fundamentals of Biology and Genetics, if acquired during previous studies.
Learning outcomes	To know well the vocabulary of Genetics and therefore knowing how to recognize the role and interactions between fundamental molecules for genetic information and its expression. To know the classification of genetic diseases, their main aspects also in relation to genetic tests.
Course contents	? Introduction to the Genetics: the vocabulary of Genetics, the main macromolecules and the fundamentals of cells and chromosomes ? Human chromosomes and cytogenetics, indications for karyotype analysis ? Classification of genetic diseases ? Chromosomal diseases: chromosomal abnormalities, aneuploidies

	<p>and their cause, autosomal trisomies, chromosome structure abnormalities and phenotypic effect</p> <p>? Monogenic diseases: molecular causes and phenotypic effect;</p> <p>Mendelian inheritance and the basic terms: locus, allele, phenotype, genotype, dominant and recessive</p> <p>? Genetic tests</p>
Teaching methods	Lectures
Reccomended or required readings	Clementi M. Elementi di Genetica Medica, EdiSES Editore
Assessment methods	Written exam with multiple choice questions (online Kiro Learning)
Further information	
Sustainable development goals - Agenda 2030	\$lbl legenda sviluppo sostenibile