



GENERAL BIOLOGY

Enrollment year	2019/2020
Academic year	2019/2020
Regulations	DM270
Academic discipline	BIO/13 (APPLIED BIOLOGY)
Department	DEPARTMENT OF MOLECULAR MEDICINE
Course	MEDICINE AND SURGERY (IN ENGLISH LANGUAGE) (ENGLISH LANGUAGE)
Curriculum	PERCORSO COMUNE
Year of study	1°
Period	(01/10/2019 - 17/01/2020)
ECTS	2
Lesson hours	16 lesson hours
Language	English
Activity type	WRITTEN TEST
Teacher	CICCONI ROBERTO (titolare) - 2 ECTS
Prerequisites	None
Learning outcomes	<p>The aim of this course is to learn:</p> <ul style="list-style-type: none">• the structure of the cell• the differences between prokaryotes and eukaryotes• the role of the chromatin/nucleus and the importance of genetic information; how cells use the genetic information• the structure and the role of intracellular organelles• cell division: the cell cycle and the mitosis• meiosis
Course contents	<p>Organization and diversity of cells. Prokaryotes and eukaryotes</p> <p>Chromatin, chromosomes, mitosis and cell cycle</p> <p>Meiosis and recombination.</p> <p>Molecular genetics techniques and identification of disease genes</p>

	Intracellular Compartments: Mitochondria, RER, REL, Golgi apparatus, lysosomes and cytoskeleton Intracellular membrane traffic
Teaching methods	Frontal lessons PowerPoint presentations Active learning: the students will be asked to interact with the teacher during the lessons
Reccomended or required readings	Molecular Biology of the Cell, 6th edition Bruce Alberts, Alexander Johnson, Julian Lewis, David Morgan, Martin Raff, Keith Roberts, Peter Walter Garland Science, 2014
Assessment methods	Written examination, multiple choice questions
Further information	Office hours: by appointment. Please email roberto.ciccone@unipv.it
Sustainable development goals - Agenda 2030	\$Ibl legenda sviluppo sostenibile