



HUMAN SYSTEM BIOCHEMISTRY	
Enrollment year	2021/2022
Academic year	2021/2022
Regulations	DM270
Academic discipline	BIO/10 (BIOCHEMISTRY)
Department	DEPARTMENT OF MOLECULAR MEDICINE
Course	BIOMEDICAL LABORATORY TECHNIQUES
Curriculum	PERCORSO COMUNE
Year of study	1°
Period	(04/10/2021 - 21/01/2022)
ECTS	2
Lesson hours	16 lesson hours
Language	Italian
Activity type	ORAL TEST
Teacher	GALLIANO MONICA (titolare) - 2 ECTS
Prerequisites	A basic knowledge of General and Organic Chemistry is required
Learning outcomes	Knowledge of the structural and metabolic aspects of carbohydrates, proteins, lipids and nucleotides.
Course contents	<p>Macromolecules: digestion and absorption of nutrients.</p> <p>Carbohydrate metabolism: glycolysis, glycogen synthesis, glycogen demolition, anaerobic and aerobic pyruvate fate and Krebs cycle.</p> <p>Hormonal regulation of carbohydrate metabolism</p> <p>Bioenergetics and ATP</p> <p>Lipid metabolism: hydrolysis of triglycerides and beta oxidation of fatty acids. Ketogenesis.</p> <p>Phospholipids.</p> <p>Protein metabolism: functions of amino acids, elimination of the amino group and fate of the carbon skeleton.</p> <p>Peptide bond and protein structure.</p>

	Nucleotides and nucleic acids.
Teaching methods	Frontal lectures
Reccomended or required readings	Didactic material provided by the teacher
Assessment methods	Oral exam
Further information	
Sustainable development goals - Agenda 2030	\$bl legenda sviluppo sostenibile