SUBJECT TEACHING GUIDE

G4 - Metabolic and Structural Biochemistry

Degree in Medicine

Academic year 2020-2021

1. IDENTIFYING DATA					
Degree	Degree in Medicine			Type and Year	Core. Year 1
Faculty	Faculty of Medicine				
Discipline	Basic Subject Area: Biochemistry Morphology, Structure and Function of the Human Body				
Course unit title and code	G4 - Metabolic and Structural Biochemistry				
Number of ECTS credits allocated	6	Term		Semester based (1)	
Web	http://aulavirtual.unican.es				
Language of instruction	Spanish	English Friendly	No	Mode of delivery	Face-to-face

Department	DPTO. BIOLOGIA MOLECULAR
Name of lecturer	MARIA DOLORES DELGADO VILLAR
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Other lecturers	JAVIER LEON SERRANO JOSE CARLOS RODRIGUEZ REY MARIA TERESA GARCIA UNZUETA JOSE PEDRO VAQUE DIEZ MAGDALENA MARIA FOLTMAN FLOR MARIA PEREZ CAMPO LOURDES MARIA VALDIVIA FERNANDEZ DANIEL GARCIA SANCHEZ

3.1 LEARNING OUTCOMES

- The student should understand the structure and functions of the major molecules involved in metabolic reactions. They will understand how changes in the structure affect its function and will end the course with a complete idea of metabolism . This includes not only a detailed knowledge of major metabolic pathways but also their coordinated regulation. An introduction to laboratory work will also be included.

4. OBJECTIVES

Most diseases are the consequence of molecular changes and in order to understand the basis of pathological processes it is important to have a solid knowledge of Biochemistry. The major aim of this course on Biochemistry is to provide the medical student with the basical knowledge to understand the molecular logic of health and disease.
Biochemistry has an experimental nature and thus laboratory lessons are an important part of the course.

6. COURSE ORGANIZATION

CONTENTS	
1	Biomolecules, amino acids, lipids, membranes, proteins, enzimes.
2	Metabolism. Major pathways and regulation.

7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
There will be two tests corresponding to the two parts of the course, structural and metabolic Biochemistry. The test of Structural Biochemistry will also include questions of laboratory lessons.	Written exam	No	Yes	10,00
The test will take place in December	Written exam	No	Yes	35,00
There will be two exams accounting for 4.5 points each.	Written exam	No	Yes	45,00
Personal work will account for one tenth of total score.	Work	No	No	10,00
TOTAL				100,00

Observations
Final score will be the addition of the scores of the exams (4.5 points each) and of the student's personal work (1 point).
Observations for part-time students
None

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

Marks. Bioquímica Médica básica.Un enfoque clínico. 5ª Edición. Editorial Lippincott 2018 .
Lehninger Principles of Biochemistry. 7ª edición. Editorial Omega 2018.