

SUBJECT TEACHING GUIDE

G127 - Human and Molecular Genetics

Degree in Medicine

Academic year 2019-2020

1. IDENTIFYING DATA					
Degree	Degree in Medicine			Type and Year	Compulsory. Year 2
Faculty	Faculty of Medicine				
Discipline	Basic Subject Area: Genetics Morphology, Structure and Function of the Human Body				
Course unit title and code	G127 - Human and Molecular Genetics				
Number of ECTS credits allocated	6	Term	Semester based (2)		
Web					
Language of instruction	Spanish	English Friendly	Yes	Mode of delivery	Face-to-face

Department	DPTO. BIOLOGIA MOLECULAR				
Name of lecturer	MARIA ELENA CABEZON NAVARRO				
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Other lecturers	GABRIEL MONCALIAN MONTES MARIA JESUS LUCAS GAY RAUL FERNANDEZ LOPEZ IGNACIO MARIA ARECHAGA ITURREGUI IGNACIO VARELA EGOACHEAGA LAURA QUEVEDO PALACIO FERNANDO VALENZUELA GOMEZ				

3.1 LEARNING OUTCOMES

- Understanding and managing the molecular basis of genetics
- Understanding the mechanism of human heredity
- Knowledge of the different medical applications of genetics

4. OBJECTIVES

Successful completion of the learning outcomes.

6. COURSE ORGANIZATION

CONTENTS

1	The Human Genome. Structure and function of the genes. Method in Human Molecular Genetics.
2	Chomosomal heredity. Clinical cytogenetics
3	Monogenic inheritace. Mutation and polymorfism. Molecular Pathology.
4	Genetic variation in human populations
5	Multifactorial inheritance. Linkage analysis.
6	Prevention and treatment of genetic diseases. Genetics and society.

7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
Homework assignment	Work	No	No	10,00
Written test	Written exam	No	No	10,00
Half-term test	Written exam	No	Yes	40,00
Second Half-term test	Written exam	No	Yes	40,00
TOTAL				100,00
Observations				
Observations for part-time students				

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

Título : Genetics and Genomics in Medicine
 Autor : Strachan-Goodship-Chinnery
 Editor :Garland Science
 Edición/Año : 1ª edición. 2014

Título : Thompson &Thompson. Genética en Medicina
 Autor : Nussbaum - McInnes - Willard
 Editor : Masson, S.A. Barcelona.
 Edición/Año : 8ª edición. 2016