

SUBJECT TEACHING GUIDE

M1581 - Structure of Macromolecules

University Master's Degree in Molecular Biology and Biomedicine

Academic year 2022-2023

1. IDENTIFYING DATA			
Degree	University Master's Degree in Molecular Biology and Biomedicine	Type and Year	Optional. Year 1
Faculty	Faculty of Medicine		
Discipline	Optional Subjects Module		
Course unit title and code	M1581 - Structure of Macromolecules		
Number of ECTS credits allocated	5	Term	Semester based (1)
Web			
Language of instruction	English	Mode of delivery	Face-to-face

Department	DPTO. BIOLOGIA MOLECULAR
Name of lecturer	IGNACIO MARIA ARECHAGA ITURREGUI
E-mail	ignacio.arechaga@unican.es
Office	Facultad de Medicina. Planta: + 1. DESPACHO DE JOSE PEDRO VAQUE DIEZ (1095)
Other lecturers	FERNANDO DE LA CRUZ CALAHORRA GABRIEL MONCALIAN MONTES MARIA PILAR GARCILLAN BARCIA MARIA JESUS LUCAS GAY MARIA ELENA CABEZON NAVARRO FERNANDO MORO PEREZ MIKEL VALLE RODRIGUEZ

3.1 LEARNING OUTCOMES

--Understanding experimental approaches for the determination of the three-dimensional structure of biological macromolecules

4. OBJECTIVES

- 1.- Understanding the basics of the structure of macromolecules
- 2.- Introduction to the experimental methods used in the determination of the three-dimensional structure of macromolecules

6. COURSE ORGANIZATION

CONTENTS

1	<ul style="list-style-type: none"> - 30 h Seminars - 10 h Practicals in laboratory - 10h Practicals in classroom
---	---

7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
Students will give a shor-talk about one of the topics treated in this course	Oral Exam	Yes	Yes	30,00
Students will be evaluated by the active participation in seminars, debates and practical sessions	Others	No	No	10,00
-Assitance to seminars and active participation	Others	No	Yes	60,00
TOTAL				100,00
Observations				
Observations for part-time students				
Part time students unable to attend seminars will have to do an individual report in one of the topics. In any case, the oral exam, consisting of a PowerPoint presentation, is compulsory.				

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

GÓMEZ-MORENO, C Y SANCHO, J (COORDINADORES) "ESTRUCTURA DE PROTEÍNAS". ED. ARIEL 2003
 CREIGHTON, T . "PROTEINS. STRUCTURE AND MOLECULAR PROPERTIES" 2ª ED. FREEMAN. 1993
 BRANDEN, TOOZE. "INTRODUCTION TO PROTEIN STRUCTURE" 2ª ED. GARLAND 1999
 LESK, A. "AN INTRODUCTION TO PROTEIN ARCHITECTURE: THE STRUCTURAL BIOLOGY OF PROTEINS." OXFORD UNIVERSITY PRESS, 2001
 KYTE "STRUCTURE IN PROTEIN CHEMISTRY", GARLAND 1995
 DARBY, CREIGHTON "PROTEIN STRUCTURE" IRL PRESS. OXFORD UNIVERSITY PRESS 1993
 RHODES, G "CRYSTALLOGRAPHY MADE CRYSTAL CLEAR". 2ª ED. ACADEMIC PRESS 2000