

BIOACTIVE ORGANIC COMPOUNDS 2016-2017

Bachelor Degree:	CHEMISTRY	702G	
Course title:	BIOACTIVE ORGANIC COMPOUNDS		529
Year/Semester:	3rd/1st	ECTS Credits:	6

DEPARTMENT

Department of Chemistry					
Address:	Madre de Dios, 53				
City:	Logroño	Province:	La Rioja	Postal code:	26006
Phone number:	+34 941 299 607		Email address:	dpto.dq@unirioja.es	

ENGLISH-FRIENDLY FACULTY

Name:	Busto Sancirián, Jesús Héctor		
Phone number:	+34 941 299 668	Email address:	hector.busto@unirioja.es
Office:	1104	Building:	Faculty of Sciences and Technology

Name:	Peregrina García, Jesús Manuel		
Phone number:	+34 941 299 654	Email address:	jesusmanuel.peregrina@unirioja.es
Office:	1218	Building:	Faculty of Sciences and Technology

CONTENTS

The course is related to the emerging field of Biological Chemistry, especially to the organic synthesis of compound with biological interest as well as pharmaceutical compounds. Topics as natural products chemistry, medicinal chemistry and synthetic strategies are studied in this course.

UNIT1. Bioactive organic compounds and Biological Chemistry

UNIT2. Natural products

UNIT3. Pharmaceutical compounds and pharmaceutical industry

UNIT4. Retrosynthetic analysis. Revision of some examples

UNIT5. Disconnection of carbon-heteroatom bonds (C-X)

UNIT6. Protecting groups

UNIT7. Disconnection of carbon-carbon bonds (C-C)

UNIT8. Other type of disconnections.

UNIT9. Heterocyclic chemistry

UNIT10. Heterocycles in the synthesis of natural products

UNIT11. Heterocycles in the synthesis of pharmaceutical products

REFERENCES

Title

Organic synthesis: the disconnection approach

Workbook for organic synthesis

Heterocyclic chemistry

Heterocycles in natural product synthesis





EVALUATION SYSTEM

Power point and oral presentation of a synthetic project of a bioactive organic compound (30%, unrecoverable) Final exam (70%, recoverable)

