

Syllabus Course description

Course title	Genetics Applied to Foods
Course code	44709
Scientific sector	AGR/07
Degree	LM-70
Semester	I
Year	II
Academic year	2021/22
Credits	6
Modular	no

Total lecturing hours	36
Total exercise hours	24
Attendance	obbligatory
Prerequisites	
Course page	

Lecturer	Fabrizio Costa
Scientific sector of the lecturer	AGR/07
Teaching language	English
Office hours	18
Teaching assistant (if any)	
List of topics covered	Why genetics is important to foods Genetics and evolution Principles of mendelian genetics and quantitative genetics The discovery of DNA Molecular Plant Breeding Map, QTL and Association Studies The OMIC technologies Genetic engeneering and New Breeding Technologies
Teaching format	Frontal Lessons and excercises



Learning outcomes	The learning outcomes need to refer to the Dublin Descriptors: Knowledge and understanding To give students an introduction to Plant Genetics and how this discipline has impacted and changed the foods we are eating nowadays Applying knowledge and understanding With this course the students should acquire all the elements in order to support breeding activities with modern biotechnologies Making judegments This will be a very multidisciplinary course, the students in the end should be able to integrate different knowledge and handling complexity Communication skills The students should be able to communicate to diverse audiences their conclusions and the knowledge acquired during the course Learning skills The student should develop skills necessary to
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Assessment	Indicate the types of assessment (according to the table)

Assessment	Indicate the types of assessment (according to the table) and check the coherence with the Dublin descriptors Examples: Oral and lab: oral exam with review questions, oral exam to test knowledge application skills, evaluation of results
Assessment language	English
Evaluation criteria and criteria for awarding marks	 During the final assessment will be evaluated the level of preparation of the students and the clarity of answers. An important aspect that will be evaluated is the capacity of the student to make links between the several topics teached during the course.

Required readings	Genetic text books suggested by the professor
Supplementary readings	Teaching slides