

Course	Green Biotechnology
Course No.	01ER637
Credits	1.5 credits
Grade	2 nd year
Timetable	Fall AB
Instructor	Prof. Philippe Gallusci (UB) 、 Prof. Michel Hernould (UB) 、 Assistant Prof. Frédéric Delmas (UB)
Course Overview	The objectives are to allow the students to deepen their knowledge in the most recent aspects of plant biotechnologies in terms of strategies and methodologies. This includes GMO use and regulations, genome editing technologies or synthetic biology. The course will focus on examples as to better understand the various strategies that can be used to set up research or industrial projects in this domain
Remarks	Conducted in English at University of Bordeaux
Course Type	Lectures/case studies
Link between Course Objectives and Activities	By learning the latest strategies and methodologies in plant biotechnology, the students deepen their expertise in sustainable food production systems.
Academic Goal	<ol style="list-style-type: none"> 1. Students will be able to design/ evaluate strategies for metabolic engineering in plants; 2. Students will be able to design/ evaluate strategies for plant engineering with the aim to improve plant productivity, crop production quality, resistance to pathogens, or any other objectives 3. Students will be able to set up experimental design to evaluate the consequences of plant engineering on plant phenotypes
Course Schedule	<ol style="list-style-type: none"> 1. Students will acquire fundamental and practical knowledge relating to the most recent advances in Plant Biotechnologies and application to crop improvement. 2. They will gain advanced skills in various fields of Green biotechnologies.
Course Prerequisites and Advisories	
Grading Philosophy (Percentage/ Criteria/ Methodology)	Students are evaluated by their report assignments and terminal written and/or oral examination.
Self-Directed Learning Other Than Coursework	Scientific papers and case study reports, as assigned.
Textbooks, References and Supplementary Materials	None.
Office Hours	By appointment only.
Other (i.e. Expectations on Classroom, Conduct and Decorum etc.)	
Related Courses	
Keywords	