LBIO1342

2015-2016

Plant morphogenesis

3.0 credits	20.0 h + 15.0 h	2q

Teacher(s) :	Chaumont François ;
Language :	Français
Place of the course	Louvain-la-Neuve
Main themes :	The structural and functional characteristics of plant cells are analysed first. The regulation mechanisms of cell cycle, cytokinesis, elongation and cell differentiation are then studied. All through the course the student is introduced to scientific communication through the critical analysis of the form and the content of articles on the morphogenesis processes tackled during the course.
Aims :	- Allow the student to understand how the plant cell divides, grows and differentiates - Discover the physiological, cellular and molecular mechanisms controlling the plant cell growth and differentiation - At the end of the course, the students should understand the strategies and experimental methodologies used to understand plant development and morphogenesis *The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".*
Content :	The course includes 20-hour formal lectures using up-to-date media facilities. The students following the courses BIO1342 and BIO1342 will have practical laboratory. They will characterize plants affected in their development. A written report organized as a scientific paper will be asked. As a learning agenda of harnessing, reviewing and communicating synthetically relevant scientific findings, the students would be asked to critically analyse a proposed scientific paper dealing with any area or knowledge developed during the course. A written report will be prepared. An oral presentation (in presence of the lecturers and other attendees) will be followed by a questions and answers session. The students attending the courses BIO1342 and BIO1343 will analyse only one paper and will be exempted from the written report.
Other infos :	Precursory courses: Basic courses in plant biology and physiology Student evaluation will be made of (1) a written report (laboratory class or scientific paper), (2) an oral presentation from a critical reading of a proposed or chosen scientific paper and (3) answering questions around the findings of the presented paper and knowledge from the lectures. A copy of the lectures' slide show will be made available from i-Campus shareware.
Faculty or entity in charge:	BIOL

Programmes / formations proposant cette unité d'enseignement (UE)				
Intitulé du programme	Sigle	Credits	Prerequis	Acquis d'apprentissage
Additionnal module in Biology	LBIOL100P	3	-	
Master [120] in Biochemistry and Molecular and Cell Biology	BBMC2M	3	-	
Minor in Biology	LBIOL100I	3	-	
Master [60] in Biology	BIOL2M1	3	-	