UCL Université catholique de Louvain

LBIO1343

2015-2016

Développement et morphogenèse végétales : contrôle génétique de la morphogenèse

3.0 credits	25.0 h + 15.0 h	2q

Teacher(s) :	Chaumont François ;
Language :	Français
Place of the course	Louvain-la-Neuve
Main themes :	Different processes of development and morphogenesis are studied. The mechanisms of embryos edification, vegetative and reproductive systems are analysed. Tropisms phenomena and movements are envisaged. The effect of environment and phytohormones on plant development are studied. Finally the student is introduced to scientific communication through the critical analysis of the form and the content of articles on the development and morphogenesis processes tackled during the course.
Aims :	- Understand the organ formation and plant development all through its life - Understand how an organism fixed to the substrate adapts its edification processes to face environmental variations. - Discover the physiological, cell and molecular mechanisms that control the plant development. - At the end of the course, the students should be able to understand the biological strategies and experimental methodologies used to understand the 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.
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	-	🔍
Minor in Biology	LBIOL100I	3	-	🔍