UCL Université catholique de Louvain

LBIR1322

2012-2013

General genetics

4.0 credits	45.0 h + 15.0 h	2q

Teacher(s) :	Baret Philippe ;
Language :	Français
Place of the course	Louvain-la-Neuve
Main themes :	Expose and integrate the mendelian and molecular approaches of genetics. Describe the genome by cartography, both genetically and physically. Linking genetics with biochemistry through describing the regulating mechanisms and introducing development genetics. Introduction of the notion of quantitative trait for selection applications. Presenting the applications in classical agronomy and biotechnology. In Module B, The genetic variety will be defined and integrated in a conservation perspective. A particular attention will be set on the estimation of genetic variety by means of molecular markers.
Aims :	This course aims to integrate notions of molecular and cellular biology as of biochemistry in the context of heredity. Module A (45h) presents the complexity of the gene as a concept, considered both as an information unit and as a molecular object. Module B (15h) aims the acquisition of the molecular (molecular markers) and conceptual tools for the study of genetic diversity. *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".*
Other infos :	The module A (45 hours) is taken by all the students of BIR13; the module B (15 hours) is followed only by the students BIRA and BIRE 13.
Cycle and year of study :	> Bachelor in Bioengineering > Bachelor in Veterinary Medicine > Master [120] in Biomedical Engineering
Faculty or entity in charge:	AGRO