



4 credits

45.0 h + 15.0 h

Q2

Teacher(s)	Baret Philippe ;Mahillon Jacques (compensates Baret Philippe) ;
Language :	French
Place of the course	Louvain-la-Neuve
Prerequisites	<i>The prerequisite(s) for this Teaching Unit (Unité d'enseignement – UE) for the programmes/courses that offer this Teaching Unit are specified at the end of this sheet.</i>
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	<p>1 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.</p> <p>-----</p> <p><i>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".</i></p>
Bibliography	Le cours ne fait appel à aucun support particulier qui serait payant et jugé obligatoire. Les ouvrages payants qui seraient éventuellement recommandés le sont à titre facultatif.
Faculty or entity in charge	AGRO

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Aims
Master [120] in Biomedical Engineering	GBIO2M	4		
Bachelor in Veterinary Medicine	VETE1BA	4	LBIO1111 AND LVET1295 AND LVETE1262	
Bachelor in Bioengineering	BIR1BA	4		