

3.0 credits

24.0 h + 12.0 h

Teacher(s) :	Lutts Stanley ;
Language :	Français
Place of the course	Louvain-la-Neuve
Main themes :	1) In vitro culture methods of plant tissues and somatic cells : description of stages of the culture, its applications, the variation it induces, the problems posed by this variation and its possible use. 2) Using cultures of plant cells for industrial production of secondary metabolites and for biotransformation. 3) Ways of inducing haploidy, mainly by antheridy and microspore cultures ; use of haploids. 4) Somatic hybridation by protoplast fusion, functioning of regenerated cells and of hybrid plants, asymmetric hybrids and genetic information transfer, cybrids and mitochondrial and chloroplast transfer.
Aims :	Describe the different manipulations applied to plant cells and to whole plants, the results obtained and the consequences to expect for a better knowledge of plants and for use in plant breeding. <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>
Other infos :	Precursorycourses Basic courses in biochemistry, cellular biology, botany (physiology and morphology) and genetics. Support Reference books and review articles
Cycle and year of study :	> Master [60] in Biology
Faculty or entity in charge:	BIOL