LCHM2170

2016-2017

Introduction to protein biotechnology

3.0 credits	22.5 h + 7.5 h	1q

Teacher(s) :	Soumillion Patrice ; Morsomme Pierre ;
Language :	Français
Place of the course	Louvain-la-Neuve
Main themes :	1. Gene manipulation: recovery, cloning, modification, transfer and characterisation. 2. Gene expression: vectors, expression in bacteria, yeasts, plants, insect and mammalian cells, production of monoclonal antibodies. 3. Protein improvement: genetic engineering, directed evolution and chemical stabilisation. All the underlying techniques will be briefly explained.
Aims :	The student will get to know the field of protein biotechnology for which the interactions with chemistry are continuously growing, especially in bio-pharmacy. He will learn the notions of molecular biology and genetic engineering that are useful with regard to the production and improvement of proteins. Another objective is also to acquire the vocabulary associated with these notions so that the student will later be able to interact with the experts of that field. *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 course could be partly or totally delivered by an invited lecturer.
Faculty or entity in charge:	CHIM

Programmes / formations proposant cette unité d'enseignement (UE)

Intitulé du programme	Sigle	Credits	Prerequis	Acquis d'apprentissage
Master [120] in Chemical and Materials Engineering	KIMA2M	3	-	
Master [120] in Chemistry	CHIM2M	3	-	
Master [60] in Chemistry	CHIM2M1	3	-	