UCL Université catholique de Louvain

WSBIM2114

2015-2016

Biologie cellulaire et moléculaire approfondie (1re partie)

4.0 credits	39.0 h	1q

Teacher(s) :	Gailly Philippe ; Lemaigre Frédéric ; Michiels Thomas ; Knoops Laurent ; Hermans Emmanuel ; Demoulin Jean Baptiste ; Courtoy Pierre ; Octave Jean-Noël (coordinator) ;
Language :	Français
Place of the course	Bruxelles Woluwe
Inline resources:	Illustrations and text posted on iCampus
Prerequisites :	Pré-requis : Cell and molecular biology, biochemistry, physiology.
Main themes :	The main topics are those of the analysis of the interaction between DNA and proteins, the study of gene expression, including manipulation of the expression level, cell imaging, receptor function, and electrophysiology. The integrated use of the tools presented will be further illustrated by recent scientific publications.
Aims :	At the end of this course, students will be able to use the tools needed to study the function of genes and their expression. Students will also be able to use the tools needed to investigate the subcellular localization and function of the proteins encoded by these genes. *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".*
Evaluation methods :	Written examination on theoretical issues, data analysis, and methodological choices based on issues raised.
Content :	DNA / protein Interaction, gene expression profile, new generation DNA/RNA sequencing, expression vectors, cell imaging, membrane receptors coupling, electrophysiology.
Other infos :	Courses grouped into periods of two hours at the start of the first term. Illustrations and text posted on iCampus.
Faculty or entity in charge:	SBIM

Programmes / formations proposant cette unité d'enseignement (UE)				
Intitulé du programme	Sigle	Credits	Prerequis	Acquis d'apprentissage
Master [120] in Biomedicine	SBIM2M	4	-	🔍
Master [60] in Biomedicine	SBIM2M1	4	-	🔍