


4 credits

39.0 h

Q1

Teacher(s)	Demoulin Jean Baptiste ;Hermans Emmanuel ;Lemaigre Frédéric ;Limaye Nisha (compensates Demoulin Jean Baptiste) ;Michiels Thomas ;Octave Jean-Noël coordinator ;Tyteca Donatienne ;
Language :	English
Place of the course	Bruxelles Woluwe
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	<p>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.</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>
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.
Inline resources	Illustrations and text posted on iCampus
Bibliography	• fichier reprenant les notes de cours disponible sur moodle
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 containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Aims
Master [120] in Biomedicine	SBIM2M	4		
Master [60] in Biomedicine	SBIM2M1	4		