UCLouvain

wsbim1211

2026

Methodolgy of cell and molecular biology

3.00 credits	22.5 h	Q2

Teacher(s)	Bommer Guido ;Collet Jean-François (coordinator) ;Constantinescu Stefan ;Leverrier Pauline ;Tyteca Donatienne ;
Language :	French
Place of the course	Bruxelles Woluwe
Prerequisites	*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.*
Main themes	Methodologies currently discussed are (1) principles and methods of protein purification, including the calculation of a purification table; (2) principles, applications and safety rules in the use of radioactivity as a tool in biochemistry and cell biology; (3) principles and applications of cell culture; (4) the physical basis, methods, potentials and limitations of analytical subcellular fractionation ; and (5) morphological methods, with emphasis on molecular tracking in fixed and living cells
Learning outcomes	**At the end of this learning unit, the student is able to :** 1 To get a critical grasp on a few essential methodologies in cell and molecular biology, on which teachers have a special expertise. The course primarily aims at the understanding of basic principles and inherent limitations, so as to help students in selecting the most appropriate approach to address a specific question. This teaching further demands the quantitative analysis of the observations and the differentiation between warranted and unjustified conclusions from a particular experiment
Faculty or entity in charge	SBIM

Programmes containing this learning unit (UE)

Program title	Acronym	Credits	Prerequisite	Learning outcomes
Additionnal module in Biomedical Sciences	APPSBIM	3		🔍
Bachelor in Biomedicine	SBIM1BA	3	WFASB1102 AND WSBIM1103 AND WFASB1100 AND WSBIM1102	🔍