

3.00 credits

30.0 h

Q2

Teacher(s)	Bertrand Luc ;Kienlen-Campard Pascal (coordinator) ;
Language :	French > English-friendly
Place of the course	Bruxelles Woluwe
Prerequisites	<i>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.</i>
Main themes	Some experimental strategies, based on a well-defined system, and that gave rise to major breakthroughs in cellular and molecular biology are exposed and discussed. The key experiments will be detailed. Students (in small groups) further elaborate experimental strategies for specific problems: -first, the teacher proposes selected problems in the field of molecular and cellular biology and provides the students with useful informations to elaborate an experimental strategy; -the students propose experimental models and approaches that need to be validated by the teacher; -these experimental approaches are tested and the results obtained are analysed and discussed in the light of published work. -finally, the students present the result of their work to their colleagues and teachers.
Learning outcomes	
Evaluation methods	The assessment will focus on the skills acquired during the workshop (A), the quality of the written research project (B) and its defence before the examination board (C). The final mark is the weighted average of the marks obtained for the three parts (A,B,C)
Teaching methods	The activity takes place in workshops, supervised by one of the course co-teachers. During this workshop, the student will be asked to formulate a research question, to carry out bibliographical research and personal work allowing to gradually translate this question into a research project. The research project will be written individually according to well-defined rules.
Content	All relevant course descriptions are provided on the WSBIM1303 course link
Inline resources	Resources available on the moodle site of the course .
Other infos	Necessary background: basic knowledge in biochemistry, cell biology, cell physiology, molecular biology and genetics. This course can be complemented by a presentation of methods (e.g. SBIM2111: Methodology of Cellular and Molecular Biology), by a tutorial on in-depth questions in cellular biology (e.g. BICL3245: Special Questions in Cellular Biology) and in molecular biology (e.g. DBCM3001: Tutorial in Molecular Biology) Assessment method: The assessment will focus on the quality of the presentation of the experimental approach, the analysis of the results obtained and their critical comparison with the literature.
Faculty or entity in charge	SBIM

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Bachelor in Biomedicine	SBIM1BA	3	WFARM1221S AND WSBIM1226 AND WSBIM1227 AND WMDS1230 AND WSBIM1293 AND WFARM1282 AND WSBIM1201T AND WSBIM1200	