


3.00 credits

30.0 h

Q2

Teacher(s)	Bertrand Luc ;des Rieux Anne ;Horman Sandrine ;Tyteca Donatienne (coordinator) ;
Language :	French
Place of the course	Bruxelles Woluwe
Prerequisites	Prerequisites : good knowledge of the theory and methodology in cell and molecular biology. <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	<ol style="list-style-type: none"> 1. The build-up of experimental strategy in cell and molecular biology is illustrated by paradigmatic experimental systems and derived classical papers that led to major discoveries, often recognized by a Nobel Prize. 2. Teachers first present the context (question) then selected papers by point-to-point analysis of essential figures. They emphasize when results force to reformulate starting hypotheses. 3. Students are then attributed a paper to similarly analyze point-to-point and to critically present as powerpoint. This work is assisted by an individual tutor, acting as coach ; and evaluated by the team of teachers, acting as validating jury.
Learning outcomes	<p>At the end of this learning unit, the student is able to :</p> <ol style="list-style-type: none"> 1. This task establishes a link in competence progression, from theoretical courses in Cell biology (WMDS1211, previously BCHM1230) and Molecular Biology (WSBIM1202), to the design of personal scientific projects (WSBIM1303). 2. Specific outcomes are to develop analytical abilities for unknown data (the analyzed paper) ; independent search of focused additional information (the context) ; and communication skills (powerpoint and oral).
Teaching methods	Current language is french, but all teachers are fluent in english ; all analyzed papers are in english ; students are encouraged to prepare their slides in english ; presentations can be in french or english.
Other infos	<ol style="list-style-type: none"> 1. Targetted students. This activity primarily targets students of SBIM13BA, but is also accessible as option from MED13BA (can be recommended to « étudiants-chercheurs ») and to first-year foreign PhD students without previous exposure to such exercice. 2. Prerequisites : good knowledge of the theory and methodology in cell and molecular biology. 3. Organization. <p>The activity is organized annually in the second semester, with rotation of themes. Presentations by teachers are usually given on first tuesdays, from 14:00 to 15:50. Papers are assigned, taking into account their level of difficulty and the student's ambition/potential. Coaching generally involves three sessions. Presentations should not exceed 15 min (max 12 slides) to leave 10 min for questions.</p>
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	WMD1120 AND LANGL1854 AND WSBIM1226 AND WSBIM1227 AND WMDS1230 AND WSBIM1211 AND LANGL1855	