

Title of the UE : (teaching unit) Technologies in Life Sciences - theoretical aspects		
Volume of time	12h CM - 16h TD	Semester : 7
Number of ECTS (European Credit Transfer System)	3 ECTS	
Teaching team	Responsible UE : Valérie Lobjois Teaching team (in progress) : F. Lopez, J. Rouquette, V. Lobjois, researchers and engineers, etc...	
EU Objective:	<p>Which technique to use according to the scientific question asked ?</p> <ul style="list-style-type: none"> - Technical bases of operation of different technologies of molecular, cellular and tissue exploration - Identification of the fields of application - Advantages and limits of these technologies - Sample preparation conditions <p>These aspects will be addressed for the following fields :</p> <ul style="list-style-type: none"> - Fluorescence microscopy - Flow cytometry / Cell sorting - Proteomics - Genomics and transcriptomics - Metabolomics - Technological couplings <p>This teaching will be a theoretical basis for the UE Technologies for the exploration of life, of the M2 of the IT2 course.</p>	
course contents (UE)	The lessons will be based on the interventions of researcher/engineer pairs who will present their complementarity in the resolution of a biological problem. The technical aspects of the approaches presented will be developed in the « practical sessions » (TD) through the analysis of documents such as equipment manuals and the analysis of experimental data from the bibliography. Some of the sessions may be taught in reverse order.	
Assessments		
Required level		
Keywords		
FTLV (O/N)	none	
Skills		
Skills block		