



Cancer, Ageing and Rejuvenation Graduate School - CARE

Master's Programme

2022 - 2023

Title of the Teaching Unit (UE): Technologies for life sciences		
Semester: S7	Number of ECTS: 3	Hourly volume: 24 h (10h CM, 24h TD)
Teaching Team	Ungoing	
Objective	<p>Which technique to use according to the scientific question asked?</p> <ul style="list-style-type: none"> - Technical basis of different molecular, cellular and tissue exploration technologies - Identification of the fields of application - Advantages and limitations of these technologies - Sample preparation conditions <p>These aspects will be addressed for the following areas:</p> <ul style="list-style-type: none"> - Fluorescence microscopy - Flow Cytometry / Cell Sorting - Proteomics - Genomics and transcriptomics - Metabolomics - Technological Couplings 	
Content	<p>The lessons will be based on the interventions of researchers/engineers who will present the importance of technological expertise in the resolution of a biological problem. The technical aspects of the approaches presented will be developed in TD through the analysis of documents such as equipment manuals and the analysis of experimental data from the bibliography.</p>	
Pre-requisites		
Keywords		
FTLV		
Skills	<p>2.1. Mobilising highly specialised knowledge, some of which is at the forefront of knowledge in a field of work or study, as a basis for original thinking</p> <p>2.2. Develop a critical awareness of knowledge in a field and/or at the interface of several fields</p> <p>3.1. identify, select and critically analyse a variety of specialist resources to document a topic and synthesise these for use</p>	
Block of Skills	<p>2. Development and integration of highly specialised knowledge</p> <p>3. Specialised communication for knowledge transfer</p>	