



Cancer, Ageing and Rejuvenation Graduate School - CARE

Master's Programme

2022 - 2023

Title of the Teaching Unit (UE): Exploring of life in imaging		
Semester: 8	Number of ECTS: 3	Hourly volume: 30h MC : 8h, DC : 8h & PC : 14h
Teaching Team	Leaders : Valérie Lobjois Pedagogic Team : PE Gleizes, A. Labrousse, V. Lobjois, J. Rouquette.	
Objective	-Awareness of the evolution of imaging techniques for exploration in biology -Progression on digital image manipulation and scientific ethics Main themes addressed : - Which technology for which scale of analysis - Multidimensional imaging (3D, 4D, 5D, ...) : How and how to analyze ? - Notion of resolution, super-resolution microscopy - Opening: coupling of different technologies, spectroscopy in image...	
Content	Magistral Courses : - Teaching based on scientific examples Practical Courses : -Realization of a project on the TP and TD around the production of figures from imaging data, with a TP session on microscopes and machine sessions for image analysis. Training Courses : - Restitution of the project in the form of presentations in TD Transversal skills : -Use of imaging software, spreadsheet and software, image manipulation in presentation software	
Pre-requisites		
Keywords		
Skills		
Block of Skills		