



Cancer, Ageing and Rejuvenation Graduate School - CARE

Master's Programme

2022 - 2023

Title of the Teaching Unit (UE): OMICS in the service of physiopathology		
Semester: 7	Number of ECTS: 6	Hourly volume: 58 hours
Teaching Team	<p>Leaders : Noélie Davezac noelie.davezac@univ-tlse3.fr and Patrice Vitali patrice.vitali@ibcg.biotoul.fr</p> <p>Teaching team : Noélie Davezac, Emmanuelle Guillou, Raphaël Mourad, David Umlauf and Patrice Vitali</p>	
Objective	The purpose of this course is to introduce students to new large-scale analysis techniques or Omics.	
Content	These advanced techniques, a true technological revolution, have allowed us to acquire a global vision of genome expression in normal and pathological situations (from genomics to proteomics). We will be particularly vigilant on the integration of these techniques to the major questions of the Biology-Health master's degree : physiopathology as a whole declined with the concepts of aging, cancer, inflammation and systemic dysfunctions.	
Pre-requisites	Basics of cellular and molecular biology (L3 level)	
Keywords	Genomics, RNA seq, proteomics	
Skills	<ul style="list-style-type: none"> -To better understand the molecular and cellular mechanisms related to pathophysiology through OMICS approaches -Master the techniques related to OMICS -Interpret the results of OMICS approaches 	
Block of Skills	Molecular Biology/Biochemistry/Cellular Biology	