



## Cancer, Ageing and Rejuvenation Graduate School - CARE

### Master's Programme

2022 - 2023

Title of the Teaching Unit (UE): OMICS in the service of physiopathology		
<b>Semester: 7</b>	<b>Number of ECTS: 6</b>	<b>Hourly volume: 58 hours</b>
<b>Teaching Team</b>	<p><b>Leaders :</b> Noélie Davezac <a href="mailto:noelie.davezac@univ-tlse3.fr">noelie.davezac@univ-tlse3.fr</a> and Patrice Vitali <a href="mailto:patrice.vitali@ibcg.biotoul.fr">patrice.vitali@ibcg.biotoul.fr</a></p> <p><b>Teaching team :</b> Noélie Davezac, Emmanuelle Guillou, Raphaël Mourad, David Umlauf and Patrice Vitali</p>	
<b>Objective</b>	The purpose of this course is to introduce students to new large-scale analysis techniques or Omics.	
<b>Content</b>	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.	
<b>Pre-requisites</b>	Basics of cellular and molecular biology (L3 level)	
<b>Keywords</b>	Genomics, RNA seq, proteomics	
<b>Skills</b>	<ul style="list-style-type: none"> <li>-To better understand the molecular and cellular mechanisms related to pathophysiology through OMICS approaches</li> <li>-Master the techniques related to OMICS</li> <li>-Interpret the results of OMICS approaches</li> </ul>	
<b>Block of Skills</b>	Molecular Biology/Biochemistry/Cellular Biology	