

<b>Title of the UE: (teaching unit)</b> <b>Exploration of life in imaging</b>		
<b>Volume of time</b>	<b>8h CM - 8h TD - 14h TP</b>	<b>Semester : 8</b>
<b>Number of ECTS</b> (European Credit Transfer System)	3 ECTS	
<b>Teaching team</b>	<b>Responsible for the UE :</b> Valérie Lobjois <b>Teaching staff :</b> PE Gleizes, A. Labrousse, V. Lobjois, J. Rouquette.	
<b>UE Objective:</b>	<p>-Awareness of the evolution of imaging techniques for exploration in biology -Progression on digital image manipulation and scientific ethics</p> <p>Main themes addressed :</p> <ul style="list-style-type: none"> <li>- Which technology for which scale of analysis</li> <li>- Multidimensional imaging (3D, 4D, 5D, ...) : How and how to analyze ?</li> <li>- Notion of resolution, super-resolution microscopy</li> <li>- Opening: coupling of different technologies, spectroscopy in image...</li> </ul>	
<b>Content of the courses« UE »:</b> <b>(TP=&gt;Practical courses)</b>  <b>(TD =&gt;Training courses)</b>	<ul style="list-style-type: none"> <li>- Teaching based on scientific examples.</li> <li>- 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.</li> <li>- Restitution of the project in the form of presentations in TD</li> <li>- Transversal skills: use of imaging software, spreadsheet and software, image manipulation in presentation software</li> </ul>	
<b>Evaluation</b>		
<b>Assessments</b>		
<b>Required level</b>		
<b>Keywords</b>	none	
<b>FTLV (O/N)</b>		
<b>Skills</b>		
<b>Skills block</b>		