

<b>MU5CI351 Current Challenges at the Chemistry &amp; Life Sciences Interface</b>									
Keywords: General background at the Chemistry & Life Sciences Interface									
Responsable <b>Domingo Gomez-Pardo, ESPCI</b>									
<i>ECTS</i> 3	<i>Cours</i> 24 h	<i>TD</i>	<i>TP</i>	<i>Tutorat</i>	<i>Ecrit</i> 100	<i>CC</i>	<i>TP</i>	<i>Oral</i>	<i>Eval. répartition</i> non
<b><i>This 3 ECTS course can be combined with 5CI352</i></b>									
<p>This module, compulsory for the CSDV track, consists in a series of conferences by researchers from PSL University/Sorbonne University presenting current challenges at the Chemistry/Biology interfaces :</p> <ul style="list-style-type: none"> <li>- Protein &amp; metabolic Engineering</li> <li>- Biological Imaging</li> <li>- Machine learning for chemical and biological research</li> <li>- Multi-scale modeling of biological systems</li> <li>- Synthetic &amp; System Biology</li> <li>- Metals in Biology</li> <li>- Bioorthogonal chemistry</li> <li>- Microfluidics and cell biology</li> <li>- Therapeutics &amp; Chemical Biology</li> <li>- Spectroscopy of biological systems</li> </ul> <p>Validation: Students (by groups) will write a bibliographic review on one of the presented topics.</p>									
<b><i>Objectifs d'apprentissage</i></b>									
Students will acquire a general knowledge of how chemistry and biology can be combined to solve problems at the chemistry and biology interface.									
<b><i>Prérequis</i></b>									
none									
<i>Langue<sup>(1)</sup></i> English	<i>Cours, TD, TP</i>						<i>Documents</i> English	<i>Bibliographie</i> English	