### MU5Ci351  Current Challenges at the Chemistry & Life Sciences Interface

**Keywords:** General background at the Chemistry & Life Sciences Interface

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**Responsable:** Domingo Gomez-Pardo, ESPCI

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**This 3 ECTS course can be combined with 5Ci352**

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:

- Protein & metabolic Engineering
- Biological Imaging
- Machine learning for chemical and biological research
- Multi-scale modeling of biological systems
- Synthetic & System Biology
- Metals in Biology
- Bioorthogonal chemistry
- Microfluidics and cell biology
- Therapeutics & Chemical Biology
- Spectroscopy of biological systems

Validation: Students (by groups) will write a bibliographic review on one of the presented topics.

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**Objectifs d’apprentissage**

Students will acquire a general knowledge of how chemistry and biology can be combined to solve problems at the chemistry and biology interface.

**Prérequis**

none

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<tr>
<th>Langue(1)</th>
<th>Cours, TD, TP</th>
<th>Documents</th>
<th>Bibliographie</th>
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<tr>
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(1) Language may vary depending on the context.