**Topic:** Biotechnology of Marine Bioactive Molecules

**Course:** Marine Biotechnology

**University:** Universidad Católica de Valencia

<table>
<thead>
<tr>
<th>6 ECTS</th>
<th>Language:</th>
<th>English</th>
</tr>
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<tbody>
<tr>
<td>Teaching mode:</td>
<td>Blended or Virtual (tbc)</td>
<td>Semester: Autumn</td>
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<tr>
<td>Semester dates:</td>
<td>1 Sep – 23 Jan</td>
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**What will you learn:**

Marine biotechnology involves the application of science and technology to produce knowledge, goods, and services from marine biological resources. Therefore, the course of Marine Biotechnology will describe the characteristics of secondary metabolites; introduce bioprospecting strategies and screening techniques of marine organisms and a wide range of biotechnologies (treatment technology, bioremediation, on-site and ‘ex-situ’ technologies). The subject will enable the student to learn the main biotechnological applications in marine animals, human health, aquaculture, and food safety. Students will undertake laboratory-based training and practical experience in some of these techniques (PCRs, synthesis and extraction of RNA, electrophoresis, etc.).

**Course activities:**

The student will learn to develop the whole scientific process (from sampling to scientific writing).

**Soft skills:**

Analytical skills, group/team working, research (scientific writing and oral presentation), ICT skills.

**Prerequisites:**

Basic background in 1) biochemistry (hydrocarbons, proteins, lipids), other biomolecules RNA, DNA. 2) Marine Biology (photosynthesis, metabolism, etc.). 3) Physiology

**More information:**