



JOINT MASTER PROGRAMME IN MARINE BIOTECHNOLOGY

CARTE D'IDENTITÉ

- > Domaine : Sciences, Technologies, Santé
 - > En formation initiale
 - > Accessible en [Cursus Master Ingénierie](#)
 - > Accessible en [Validation des Acquis \(VAE\)](#)
- > [120 crédits ECTS](#)
 - > 4 semestres

CANDIDATER

<https://www.univ-larochelle.fr/formation/admission-inscription-et-scolarite/candidatures-et-inscriptions/candidater-universite-la-rochelle/>

CONTACT

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OBJECTIFS

> Le mot du responsable

“ This joint Masters programme in Marine Biotechnology is an integrated multidisciplinary programme offered within the framework of one of the first transnational European universities.

The programme provides the student with a high-quality academic education, building professional competences in the area of marine biotechnology (also called blue biotechnology) and helping to address its global challenges.

It will ensure that students :

essential interdisciplinary training in key topics related to Marine Biotechnology ;
opportunities to specialise within one of the four thematic tracks : (1) Innovative Bioproducts for Future ; (2) Blue Biomass ; (3) Marine Biorefinery ; (4) Aquaculture Biotechnology ;

a tailored study programme according to their aspirations via individual professional practice (internship), individual research (academic research integration) and thesis work.

This Marine Biotechnology Masters gives the student multiple travel options within the alliance.

Students are integrated into a multicultural study group and a professional network, offering an immersive system of project-based learning in the 'real world' economy.

Stéphanie BORDENAVE-JUCHEREAU



Le responsable de la formation

✓ ADMISSION

> Comment candidater ?

<https://www.eu-conexus.eu/en/marine-biotechnology/>

📄 PROGRAMME

● obligatoire ■ à choix

> **Semestre 1**

> **Blue biotechnology business and R&D management I** ●

● Blue biotechnology business and R&D management I

> **Culture collection and biobanks** ●

● Culture collection and biobanks

> **Genomics, proteomics and metabolomics for marine biodiversity prospecting** ●

● Genomics, proteomics and metabolomics for marine biodiversity prospecting

> **Marine biodiversity for marine natural products** ●

● Marine biodiversity for marine natural products

> **Marine microbiome and metagenomics** ●

● Marine microbiome and metagenomics

> **Semestre 2**

> **Blue biotechnology business and R&D management II** ●

● Blue biotechnology business and R&D management II

> **Chemical libraries** ●

● Chemical libraries

> **Complément formation FLE** ■

■ Formation semi intensive FLE

> **Internship** ●

● Internship (8 weeks)

> **Marine natural products: Classes, biological activity and biosynthesis** ●

● Marine natural products: Classes, biological activity and biosynthesis

> **Module complémentaire** ■

■ Projet Rescue Jean Monnet

> **Screening of bioactivity** ●

● Screening of bioactivity

> **Semestre 3**

> **Academic research integration** ●

● Academic research integration

Aquaculture biotechnology ■

- Advanced breeding programmes
- Aquaculture systems and seafood processing
- Fish nutrigenomics
- Health and welfare in aquaculture

> Blue biomass ■

- Bioreactor design and management
- Microalgal biotechnology
- Microorganism biomass and metabolite production
- Seaweed production

> Innovative bioproducts for the future ■

- Advanced characterisation methods for marine natural products identification
- Biological profiling of marine natural products
- Marine natural products for health and wellness and food
- Optimisation of marine natural products

> Marine biorefinery ■

- Design of biorefinery processes
- Functionalisation of marine derived biomaterials
- Marine biomass functional ingredients extraction
- Marine whole-cell factories

> Semestre 4

> Module complémentaire ■

- Projet Rescue Jean Monnet

> Work place based training •

- Work place based training (24 weeks)

> Règlements et programmes



Règlement des examens et des certifications professionnelles

https://formations.univ-larochelle.fr/IMG/pdf/2024_reglement_des_examens.pdf



RÈGLEMENT DES ÉTUDES MASTER Biotechnologies

https://formations.univ-larochelle.fr/IMG/pdf/re_master_jmpmb_24-25.pdf

🎯 ET APRÈS

> Secteurs d'activité

- Biologie, biotechnologies

> Métiers

The JMPMB is focussed on applications of Marine Biotechnology to the health, cosmetics and agri-food sectors, leading the students through a pipeline on marine biotechnology including :

- biochemical and genomic prospecting tools for searching new molecules from aquatic resources.
- microorganisms, micro-algae and seaweed biomass production as the feedstock of new compound and.
- biochemical and biotechnology tools for extraction and functionalization of new compounds obtained from marine biomass for application to health, cosmetics and agri-food sectors.



Informations présentées sous réserve de modifications

fichier généré le 10 février 2025 11h00min