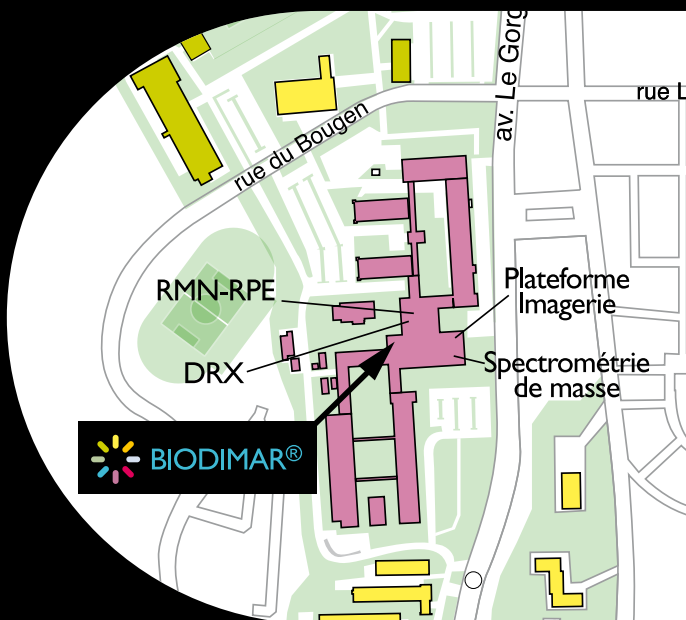


**BIODIMAR®** is integrated into a privileged scientific and economic environment

Enjoying UBO's complementary facilities.  
(map below)

400 researchers focused on marine sciences.

Strong involvement in worldwide cluster 'Pole Mer Bretagne'.



*A team at the interface of biology and chemistry focused on valorisation of marine natural products.*



Maquette : Com UBO - Crédit photos : Erwan AMICE CNRS, Benjamin Deracha, UBO

### BIODIMAR®

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## BIODIMAR®

**Technological platform  
for the extraction, purification and  
analysis of marine biomolecules**

*Supporting industry  
and academic research*

univ-brest.fr

L'Université est une chance

# BIODIMAR®

provides extensive range  
of services for industrial  
and academic research partners

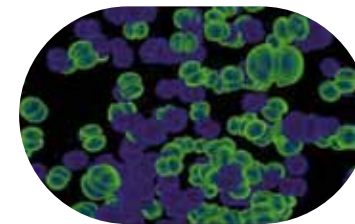
A unique maritime localization  
An exceptional marine biodiversity

BIODIMAR® allows access to original marine organism  
collections :

- Marine plants (algae)
- Terrestrial plants (coastal and tropical)
- Marine microorganisms (unusual ecosystems)
- Marine invertebrate



A large range of services  
combining dedicated scientific  
expertises and advanced  
analytical equipment



## Sample gathering and preparation

- On-field characterization and gathering of samples.
- Freeze-drying and grinding large capacity.
- Accelerated Solvent Extraction (ASE), from 40 to 200°C, all solvent types (organic and aqueous).
- Evaporation/concentration and samples conditioning (96 wellplates...).

## Natural products fractionation and purification

- Analytical development adapted to fractionation and purification of marine natural products.
- Solid Phase Extraction chromatography (10-50mg).
- Flash chromatography with UV detector (20mg-2g).
- High Performance Liquid Chromatography analytic and preparative with DAD and ELSD detectors (10-100mg).

## Molecule identification, structural analysis and quantification

- Structural analysis by NMR, mass spectrometry...
- Biochemical quantification (sugars, phenolic compounds, protein...).
- Methods of quantification development by NMR for originals compounds.



## Screening and biological testing

- Antioxidant capacity (ORAC, DPPH, FRAP...).
- Enzyme inhibition activities ( $\alpha$ -amylase,  $\alpha$ -glucosidase, lipase, tyrosinase, elastase...).
- Cytotoxic activities, inflammation (proliferation, apoptosis...).

*Tests developed upon request.*

## Bibliographic studies

Access to 177 scientific databases.

## Quality

Facilities and all instrumentation are qualified in compliance to good control laboratory practice, ensuring full traceability.

