

## Analytical Chemistry for Identification of Bioactive Marine Molecules (C004322)

Due to Covid 19, the education and assessment methods may vary from the information displayed in the schedules and course details. Any changes will be communicated on Ufora.

**Course size** *(nominal values; actual values may depend on programme)*  
**Credits 6.0**                      **Study time 150 h**                      **Contact hrs**                      39.0h

### Course offerings in academic year 2021-2022

A (semester 1)                      English                      Gent

### Lecturers in academic year 2021-2022

Mehiri, Mohamed	NICE04	lecturer-in-charge
Dayras, Marie	NICE04	co-lecturer
Industri, Benoit	NICE04	co-lecturer
Poncet, Michel	NICE04	co-lecturer
Revel, Johana	NICE04	co-lecturer
Seasseau, Aurélie	NICE04	co-lecturer

### Offered in the following programmes in 2021-2022

<a href="#">International Master of Science in Marine Biological Resources</a>	<b>crdts</b>	<b>offering</b>
	6	A

### Teaching languages

English

### Keywords

Analytical chemistry, identification, extraction, fractioning, purification, chemistry, metabolite, marine fungi, sponge, invertebrate, endophyte, halophile, HPLC, MarinLit

### Position of the course

### Contents

Students will be trained through lectures, visits and a one full-week lab on extraction, fractionation and chemical analysis of metabolites produced by marine fungi isolated from sponges. The objective is the characterization of strains and molecules for a valorization in the agronomic field as plant protection agents against certain pathologies or as biostimulants. This work is carried out in close collaboration between the ICN lab (chemistry lab), INRA (agronomy lab) and the company NIXE.

### Initial competences

Marine ecology, background in chemistry

### Final competences

- 1 Analytical chemistry.
- 2 Identification, extraction, fractioning, chemical analysis of marine metabolite.

### Conditions for credit contract

Access to this course unit via a credit contract is determined after successful competences assessment

### Conditions for exam contract

This course unit cannot be taken via an exam contract

### Teaching methods

Practicum, Group work, Excursion, Lecture

### Learning materials and price

none

### References

**Course content-related study coaching**

none

**Assessment moments**

end-of-term and continuous assessment

**Examination methods in case of periodic assessment during the first examination period**

Written examination with multiple choice questions, Written examination with open questions

**Examination methods in case of periodic assessment during the second examination period**

Written examination with multiple choice questions, Written examination with open questions

**Examination methods in case of permanent assessment**

Portfolio, Oral examination, Assignment

**Possibilities of retake in case of permanent assessment**

examination during the second examination period is possible in modified form

**Extra information on the examination methods**

Lab work, Portfolio, group presentation, peer assessment, written examination: open questions,  
written examination: MCQ

**Calculation of the examination mark**

- 60% continuous assessment,
- 40% terminal assessment