



## BIOL2276 Complements of marine biology

[22.5h] 2 credits

This course is taught in the 2nd semester

**Teacher(s):** Jean-François Rees  
**Language:** French  
**Level:** Second cycle

### Aims

To show that, from the surface of the oceans to the abyssal depths, marine organisms conceal substances with biological activities for use in medicine and industrial applications.

### Main themes

1 Marine Pharmacology :description of the organisms presenting bioactive substances and exploration of their physiological and biochemical properties . 2 Origins of the marine bioluminescence and its biomedical applications: description of the luminous organisms and the bioluminescent substances. Importance of those as antioxidant agents allowing to fight against oxidative stress and pathologies which result from this. 3 life at depth and the effects of pollution: the study of the various forms of life of the bathypelagic and abyssal realms makes it possible to understand the functioning of the Earth's greatest ecosystem. Unfortunately, man-made pollution affects the sediments of the abyssal zone and threatens the survival of associated benthic fauna.

### Other information (prerequisite, evaluation (assessment methods), course materials recommended readings, ...)

Prerequisites: basics in animal biology.

Written support: course notes

### Other credits in programs

**BIOL22/B** Deuxième licence en sciences biologiques (Biologie des organismes et des populations) (2 credits)