



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)
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