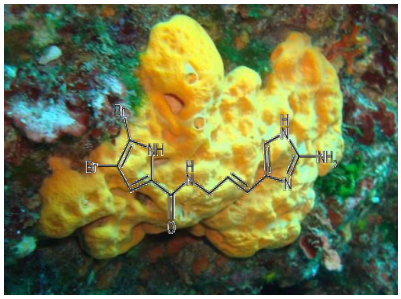
New Trends in Marine Biodiscovery

Seminar MNF-Bioc-274



Summer Semester 2023
Mondays 17:30-19:00

Start date: 17.04.2023, 17:30

Oceans cover over 70% of the earth surface and contain the world's largest biological diversity. Marine organisms, such as seaweeds, invertebrates and their microbiome, are prolific producers of a vast variety of natural products with novel chemical structures. These molecules are produced for facilitating adaptation of the organism in its ecosystem or as chemical weapons against their predators. Such molecules that are 'designed for function by Nature' have very high potential for possessing pharmacological or otherwise useful effects for human or animal diseases or may play a role in their welfare. Discovery and development of new medicines (as well as functional ingredients for food, cosmetics or other areas) represents one of the most promising and highly visible outcomes of marine biotechnology research. Marine biodiscovery is a very multidisciplinary discipline and includes strong components of natural product, analytical and organic chemistry, metabolomics, microbiology, molecular biology, pharmacology, and is driven by the challenges to overcome issues of access, supply, or difficult organic chemistry questions.

In this seminar, we will give **oral presentations** on background, potential and methodology in marine natural product chemistry and biotechnology in combination with **literature research** and **presentations** given by the participating students.

The course is given by Prof. Dr. Deniz Tasdemir, her co-workers at RU Marine Natural Product Chemistry and prominent external speakers.

Interested? Registration is compulsory, as a maximum of 10 students can participate.

Workload: 2 ECTS, the examination will be based on an oral presentation (100%).

For registration, pls send an email to mbluemel@geomar.de or/and dtasdemir@geomar.de latest **by April 14, 2023**

Venue: Düsternbrooker Weg 20, Large Conference Room (LCR) /online via Zoom