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Marine Natural Products in Crop Protection

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Deadline for manuscript
submissions:

closed (31 October 2020)

Message from the Guest Editor

Dear Colleagues,

As in many areas, natural products obtained from terrestrial plants and microorganisms have provided many scaffolds for pesticide development. However, the potential marine organisms in crop protection have remained largely underexplored. Therefore, this Special Issue aims to stimulate research on marine natural products (MNPs) deriving from marine macro-organisms (e.g., invertebrates, seaweeds) and marine micro-organisms to yield new lead compounds for protection of essential crop plants.

The main foci of this Special Issue will be on, but not restricted to, the following areas:

1. Isolation and identification of MNPs with biological activity against:
 - Plant (crop) pathogens (phytopathogens);
 - Harmful insects;
2. MNPs for weed control (phytotoxicity);
3. Target and mode of action studies on MNPs with fungicide/herbicide/insecticide activity;
4. Omics in the isolation and identification of new MNP agrochemicals;
5. Chemical synthesis and bioactivity studies on marine-originated pesticide lead compounds.

Prof. Deniz Tasdemir
Guest Editor



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Special Issue



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Editor-in-Chief

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Message from the Editor-in-Chief

During the past few decades there has been an ever increasing number of novel compounds discovered in the marine environment. This is exemplified by the robust preclinical and clinical pipeline that currently exists for marine natural products. *Marine Drugs* is inviting contributions on new advances in marine biotechnology, pharmacology, chemical ecology, synthetic biology, and genomics approaches related to the discovery of therapeutically relevant marine natural products. Our goal is to share your contribution in a timely fashion and in a manner that will be valued by the scientific community.

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