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Structural Characterization of Marine-Derived Compounds

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Deadline for manuscript
submissions:

closed (30 November 2022)

Message from the Guest Editors

Dear Colleagues,

Organic molecules with chiral centers are commonly found in natural products research. Therefore, stereochemical elucidation of natural products is an important prerequisite for novel drug research and development. To date, many methods including general nuclear magnetic resonance parameters (NMR) spectroscopic experiment, chemical reactions, quantum chemical calculations, X-ray diffraction, and others or various combinations of these have been used to assign configurations of natural products. However, the configurations are still a challenge due to unstable conformations. Some compounds were not identified correctly. For example, some NOESY data could give a confused relationship because of the complex multiring system or more than one stable confirmation. Otherwise, there is a strong need for improving the configuration determination methods.

A correct configuration assignment of the right compound is crucial for the structure determination and related research. Additionally, it is an intriguing and state-of-the-art research topic.



mdpi.com/si/120584



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Message from the Editor-in-Chief

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