

Special Issue

Biological Activities and Structure–Activity Relationships of Natural and Non-Natural Compounds

Message from the Guest Editor

We aim to examine non-natural or synthetic compounds designed to mimic or enhance the biological activities of their natural counterparts. These compounds, created through chemical modifications or entirely new synthetic routes, offer opportunities to overcome the limitations of natural substances, such as poor bioavailability or toxicity. Structure–activity relationships (SARs) are crucial in this context as they provide insights into how modifications to molecular structures can alter biological outcomes.

Modern approaches to SAR studies, including computational modeling, which facilitate the identification of key structural elements responsible for specific biological activities, are discussed.

Additionally, this Special Issue addresses advancements in drug delivery systems, which are critical for optimizing the efficacy and safety of both natural and synthetic compounds. Different techniques in drug delivery, including targeted delivery, nanoparticle-based systems, and controlled release mechanisms, are discussed in relation to enhancing the therapeutic potential and minimizing the side effects of these compounds.

Guest Editor

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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