

Special Issue

Advances in Drug Discovery and Synthesis

Message from the Guest Editors

Drug discovery starts with identifying an unsatisfied therapeutic need, including assessing the adequacy of the available therapies and researching a cure for new emerging diseases. Drug discovery and development can be performed using different approaches: serendipity, selective optimization of activity of drugs or natural products, rational drug design, the synthesis of new molecular entities using the information derived from X-ray crystal structures and in silico modeling techniques, etc. In this Special Issue, we focus on all aspects involved in the discovery of new drug candidates, e.g., the design and synthesis of biologically active molecules, new synthetic routes leading to the discovery and optimization of lead compounds, molecular modeling, bioinformatics, structure-based drug design, and crystal structure analysis. Research articles, comprehensive reviews, and short communications are welcome with the aim of collecting the most recent insights and results involving multidisciplinary approaches in the research of biologically active new molecules.

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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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