

Special Issue

Drug Development Breakthroughs: From Novel Antimicrobials to Targeted Cancer Drugs

Message from the Guest Editor

Transforming a potential drug from an idea to a marketable product on pharmacy shelves is a long, time-consuming, and expensive process. Recent advances in drug discovery and development, particularly with the integration of artificial intelligence, aim to make this process easier, faster, and safer. This Special Issue seeks to showcase the latest advancements in drug discovery and development, with a focus on molecular science. We welcome contributions that highlight, but are not limited to, novel small-molecule inhibitors, biopharmaceuticals, peptides, phytochemicals, and new antimicrobial compounds, alongside research on novel therapies for the treatment of cancer and cardiovascular and autoimmune diseases, among others. Submissions that combine clinical insights with molecular science approaches are especially encouraged, as they provide a deeper understanding of the mechanisms of action and biomolecular basis of drug effects. We invite comprehensive reviews or original research articles that explore innovative strategies in drug development, elucidating molecular pathways and their therapeutic potential.

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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