

Special Issue

Research on Synthetic Medicinal Chemistry

Message from the Guest Editor

This Special Issue will focus on the exploration of drug development through synthetic chemistry and the intricate relationship between chemical structure and biological activity. Topics covered will include the following: the synthesis of new bioactive molecules for targeting undrugged proteins; lead optimization techniques; the creation and use of PROTACs and other degradation agents; and targeting nucleic acids with synthetic small molecules. Moreover, a particular interest will be reserved for the use of powerful technologies like DNA-encoded libraries and artificial intelligence (AI). This Special Issue aims to drive forward the discovery and development of new therapeutic solutions that can address pressing global health challenges. Potential contributors are invited to submit papers on the following topics:

- Synthesis of new bioactive molecules;
- Discovery of new scaffolds for targeting undrugged proteins;
- Novel synthetic methodologies for drug development;
- Structure–activity relationship (SAR) studies in medicinal chemistry;
- Development and application of PROTACs and other degraders;
- Targeting nucleic acids with synthetic small molecules.

Guest Editor

Dr. Alberto Ongaro

Department of Pharmaceutical and Pharmacological Sciences,
University of Padova, Via Marzolo 5, 35131 Padova, Italy

Deadline for manuscript submissions

closed (20 November 2025)



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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* 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, and molecular biophysics. *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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Prof. Dr. José L. Quiles
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