

# Special Issue

## Advanced Research on Ceramide

### Message from the Guest Editor

Many current anticancer drugs used to treat breast cancer mediate tumor cell death through the induction of apoptosis. Cancer cells, however, often acquire multidrug resistance following prolonged exposure to chemotherapeutics. Consequently, molecular pathways involved in tumor cell proliferation have become potential targets for pharmacological intervention. Ceramides are tumor suppressor lipids naturally found in the cell membrane and are known to induce apoptosis through both intrinsic and extrinsic pathways. It has been shown that certain ceramide analogs have therapeutic potential in the treatment of chemosensitive and multidrug-resistant breast cancers. This Special Issue of *IJMS* will welcome original research and review articles with the aim of providing an overview of the development and discovery of novel ceramide; its analogs that increase the efficacy of standard therapy will also be covered.

### Guest Editor

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### Deadline for manuscript submissions

closed (20 May 2025)



## International Journal of Molecular Sciences

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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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### Editor-in-Chief

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