

Special Issue

Molecular Insights and Treatments for Gynecological Cancers

Message from the Guest Editor

Gynecological cancers, including ovarian, cervical, and endometrial cancers, present significant challenges in both diagnosis and treatment. Biochemistry and molecular biology play pivotal roles in understanding the molecular mechanisms underlying these cancers.

Advances in genomic profiling, proteomics, and metabolomics have revealed key biomarkers for early detection, prognosis, and therapeutic targets. Specific mutations, such as those in BRCA1/2 genes, have enhanced personalized treatment strategies, particularly in ovarian cancer. Additionally, molecular signaling pathways, such as those involving PI3K/AKT and MAPK, are critical in cancer progression and resistance to therapies. Understanding the tumor microenvironment, including immune evasion mechanisms, may also open up promising avenues for immunotherapy. This Special Issue explores the intersection of biochemistry and molecular biology in gynecological cancers, emphasizing the development of novel diagnostic tools, therapeutic approaches, and the exploration of molecular markers. These advancements offer hope for improved patient outcomes through targeted precision medicine strategies.

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.

Editor-in-Chief

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