

## Special Issue

# Innovative Strategies in the Design and Development of Anticancer Agents

### Message from the Guest Editor

The challenge in cancer therapy lies in overcoming drug resistance, improving selectivity, and minimizing toxicity. Advancements in medicinal chemistry, nanotechnology, and targeted therapies have revolutionized drug design, offering hope for more effective and personalized treatments. The integration of computational drug discovery, structure-based drug design, and biomarker-driven approaches has accelerated the development of next-generation anticancer agents. This Special Issue showcases breakthroughs in the design, synthesis, and evaluation of small molecules, biologics, and nanomedicines with potential anticancer activity. We welcome original research and review articles on drug discovery strategies, including targeted therapy, immunotherapy, prodrug development, and drug repurposing. Studies on small molecules, peptide-based drugs, antibody–drug conjugates, and nanocarriers for improved drug delivery are encouraged. Submissions on mechanism-based approaches, computational modeling, and preclinical validation of novel candidates are also invited. This Special Issue aims to advance anticancer drug development and provide more effective treatment options.

### Guest Editor

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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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