

## Special Issue

# Advances in the Translational Preclinical Research

### Message from the Guest Editor

Despite significant advances in cancer research, substantial challenges persist in the fight against this disease. Translational preclinical research plays a crucial role in this process by generating essential data to enhance drug efficacy, minimize toxicity, and establish effective management protocols. In the early stages of developing a novel therapy, the drug discovery process focuses on identifying and developing compounds that specifically target validated cancer pathways. Once a lead compound is selected, it undergoes an optimization process to improve its potency, selectivity, and safety profile. Throughout this process, *in silico*, *in vitro*, and *in vivo* experiments are conducted to deepen the understanding of the biological mechanisms underlying the evaluated cancer treatment. This Special Issue seeks to showcase original preclinical research focused on the evaluation of innovative drugs and treatments, also highlighting ongoing efforts to translate scientific discoveries into effective cancer therapies with the potential to benefit patients.

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### Guest Editor

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## International Journal of Molecular Sciences

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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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