

## Special Issue

# Allosteric Modulation of Kinases in Cancer Therapeutic Strategies and Challenges

### Message from the Guest Editor

Kinase proteins play a central role in cellular signaling pathways, and their dysregulation is a hallmark of many cancers. In recent years, allosteric modulation has emerged as a promising approach to target kinases more selectively, offering potential to overcome resistance associated with traditional ATP-competitive inhibitors. Allosteric modulators bind to distinct regions on kinases, leading to conformational changes that alter their activity without directly competing with ATP, thus providing unique opportunities for therapeutic intervention. These strategies are particularly important in targeting drug-resistant mutations and in designing therapies that minimize off-target effects. This Special Issue, "Allosteric Modulation of Kinases in Cancer Therapeutic Strategies and Challenges", will focus on original research and reviews exploring the molecular mechanisms of allosteric modulation in kinases, their therapeutic potential, and the challenges associated with developing these novel treatments.

### 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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