

## Special Issue

# Targeting PI3K/mTOR Signaling in Cancers

### Message from the Guest Editor

The phosphatidylinositol-3-kinase (PI3K)/mammalian target of rapamycin (mTOR) signaling cascade is a key regulator of cell growth, survival, metabolism, cell cycle progression, cell motility, and angiogenesis in physiological as well as pathological conditions such as cancer. The PI3K/mTOR signaling pathway is aberrantly activated in many cancers due to activation by the receptor tyrosine kinases and somatic mutations in specific components of the signaling pathway. This aberrant activation is critical in driving tumor initiation, progression, and metastasis, and is one of the main mechanisms of resistance to cancer therapy. Therefore, the identification of novel molecules at different levels of the PI3K/mTOR pathway is crucial for understanding the precise mechanism of this pathway and its inhibition. The goal of this Special Issue is to summarize and enlarge the current knowledge on the molecular aspects of PI3K/mTOR signaling in cancer. Authors are welcome to submit original basic and translational research and review articles.

### Guest Editor

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### Deadline for manuscript submissions

closed (30 December 2023)



## International Journal of Molecular Sciences

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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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### Editor-in-Chief

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