

## Special Issue

# Protein Kinase Inhibitors for Targeted Anticancer Therapies

### Message from the Guest Editor

Protein kinase inhibitors are one of the most promising groups of drugs for targeted therapies. According to the latest data, 62 small molecule protein kinase inhibitors have been approved by the Federal Drug Administration (FDA), while at least 150 are being investigated in clinical trials. This is primarily due to a better understanding of the complex signaling network formed by kinases and their mutual relationship in the signal transduction cascades. The kinase activity controls many signaling pathways responsible for major processes associated with cell growth, proliferation, differentiation, or metabolism. However, despite the growing number of inhibitors, there remain many limitations in this field. The development of resistance based on intrinsic and extrinsic pathways, genomic alterations of the primary target, as well as a short response to targeted therapies due to the activation of compensatory signaling pathways are among the main issues. The aim of this Special Issue is to highlight articles that provide new insights into the discovery of novel protein kinase inhibitors as well as their application in targeted cancer therapies.

### Guest Editor

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