

## Special Issue

# Natural and Synthesized Anticancer Bioactive Compounds in Drug Discovery, Formulations and Delivery

### Message from the Guest Editor

This Special Issue has the aim of covering current research and current approaches to the design and development of anticancer drugs. The discovery of natural and synthetic bioactive compounds with strong cytotoxic activity may represent a starting point for the development of several promising preclinical candidates for cancer treatment. Isolation of bioactive compounds, as well as the synthesis and design of compounds based on state-of-the-art tools, computational modeling studies, artificial intelligence, and machine learning techniques, will provide an understanding of disease mechanisms, and progress in cancer drug discovery. On the other hand, targeted drug delivery and the use of colloidal delivery systems such as nanoparticles, liposomes, micelles, and dendritic biopolymers have drawn significant attention. In addition, so far, it has been confirmed that many of the molecular target changes have been shown at the level of gene expression, and thus, that the effects of bioactive compounds may be mediated by the induction or repression of gene expression via direct molecular interaction (signaling pathways, transcription factors) or, most likely, by epigenetic mechanisms.

### Guest Editor

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### Deadline for manuscript submissions

closed (15 December 2022)



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### Editor-in-Chief

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