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Natural and Synthetic Molecules with Anticancer Activity: Pharmacological Basis and Mechanistic Insight

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Message from the Guest Editors

Cancer is one of the most challenging health problems encountered humanity. The deleterious side-effects and development of resistance to the current clinically used chemotherapeutics necessitate continuing research to better understand the pathology of the disease and design more effective therapeutics. Natural products with defined molecular compounds or their semisynthetic derivatives have been well-documented for their potent antitumor activity, such as paclitaxel, vincristine, doxorubicin, and bleomycin. Furthermore, another approach is ligand-based anticancer drug discovery, which relies on the screening of mega libraries of chemically diverse synthetic molecules against relevant targets, while the structure-based approach involves the rational design and synthesis of biomolecules to optimize their binding to a validated macromolecular target of a known 3D molecular architecture. In this context, this Special Issue is aimed at encouraging scientists in the field of anticancer drug development to publish their recent finding on the mechanistic mode of action of defined semisynthetic, and synthetic biomolecules with emphasis on their anticancer molecular pharmacology.







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