



## Natural Product-Derived Compounds for Targeting Multidrug Resistance in Cancer and Microorganisms

Guest Editor:

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### Message from the Guest Editor

As is widely known, cancer is a major burden of disease globally. Multidrug resistance (MDR) is one of the main impairments in successful cancer chemotherapy. Similarly, the rise and spread of antimicrobial resistance, which may occur in bacteria, viruses, fungi, and parasites, is one of the most important public health threats worldwide, leading cause of death. Although resistance in cancer and microorganisms can arise owing to multiple factors, drug efflux, by transporter proteins, is one of the major reasons of the MDR phenotype. Natural products, characterized by huge chemical diversity and privileged scaffolds, coupled with biological activities, have long been playing a decisive role in drug discovery and development, namely to treat cancer and infectious diseases. Today, many natural product-derived compounds have shown promising potential as MDR reversers, in both resistant cancer cells and microorganisms, this Special Issue invites researchers to contribute with original research or updated review articles focused on relevant natural compounds, obtained by isolation from natural sources, or semisynthetic derivatives, as MDR reversers in cancer and infectious diseases.





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