

Special Issue

Exploring the Anticancer and Immunomodulatory Mechanisms of Phytochemicals and Natural Bioactive Compounds

Message from the Guest Editor

Natural products have long been valuable for drug discovery and development, especially in oncology and immunology. Phytochemicals exhibit diverse mechanisms of action, including the induction of apoptosis, cell cycle arrest, and inhibition of angiogenesis. These natural compounds often target multiple signaling pathways, making them effective against various cancer types and reducing the likelihood of drug resistance. Furthermore, many natural products possess immunomodulatory properties, enhancing the body's immune system to recognize and eliminate cancer cells. They can stimulate the activity of immune cells and modulate the production of cytokines and other immune mediators. This issue invites submissions that explore the molecular mechanisms, bioavailability, and therapeutic potential of natural compounds in cancer treatment and immune regulation. Studies on novel natural products, combination therapies, and clinical trials are welcome. By understanding and harnessing the power of natural compounds, we can develop more effective and less toxic therapies for cancer and immune-related diseases.

Guest Editor

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Message from the Editor-in-Chief

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Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter

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