

Special Issue

Phytochemicals: Mechanisms and Applications in Cancer Prevention and Therapy

Message from the Guest Editors

Phytochemicals, naturally occurring compounds found in plants, have garnered significant attention for their potential roles in cancer prevention and therapy. Their diverse bioactivities, including antioxidant, anti-inflammatory, and anti-proliferative effects, make them promising candidates for oncological research. Recent advancements have elucidated the molecular mechanisms through which phytochemicals influence cancer pathways, including the modulation of signaling cascades, regulation of gene expression, induction of apoptosis, and inhibition of metastasis. This Special Issue, "Phytochemicals: Mechanisms and Applications in Cancer Prevention and Therapy", seeks to explore the intricate molecular interactions that underpin the anti-cancer properties of phytochemicals. We aim to compile cutting-edge research and comprehensive reviews that delve into topics such as the identification and characterization of bioactive compounds, their molecular targets, and the mechanisms of action in cancer cells.

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