

Special Issue

Plant Derived Anti-Cancer Bioactive Molecules

Message from the Guest Editor

To date, at least 78 plant-derived compounds, also called phytochemicals, have been found to show anti-cancer activity. These include alkaloids, flavonoids, terpenes, isoflavones, and phenols. Some of these compounds have been successfully used in current treatment regimens and some are still under investigation for use in cancer cell lines. The antiproliferative activity of bioactive molecules is also associated with their inhibition of certain intracellular signaling pathways that play a key role in development and maintenance of cancer cells. Moreover, natural molecules, due to their relatively low toxicity compared to synthetic compounds, are currently an attractive therapeutic target in cancer treatment.

This Special Issue of the International Journal of Molecular Sciences is dedicated to all research types, including both original and review articles, exploring new or already known plant-derived anti-cancer compounds with special attention paid to their mechanisms of action in cancer cells and their safety profile.

Guest Editor

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