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Dietary Bioactive Compounds and Breast Cancer

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Message from the Guest Editors

Breast cancer is the most common occurring cancer and one of the leading causes of cancer-related death in women worldwide. Over 80% of cases are non-hereditary, and therefore, modifiable extrinsic factors related to lifestyle, including dietary habits, play a key role in its prevention. Plant foodstuff is the most important source of bioactive compounds, including polyphenols, carotenoids, phytosterols, and others, that have been reported to exert anticancer effects by playing a broad range of pleiotropic multi-targeted activities on breast cancer cells and animal models. Over the past few decades, wrong approaches without considering their bioavailability and metabolism have been behind the current gap between preclinical and clinical research.

Therefore, this Special Issue of the CIMB will publish original research and review papers on the chemopreventive and/or chemosensitization effects on breast cancer of dietary bioactive compounds and/or derived metabolites using physiologically relevant preclinical (cell and animal models) and clinical approaches that could elucidate whether they are responsible for the effects attributed to plant-based foods.



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