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A Novel Combination of Withaferin A and Sulforaphane Inhibits Epigenetic Machinery, Cellular Viability and Induces Apoptosis of Breast Cancer Cells.

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Document Type: Article

Subject Terms: *SULFORAPLANE
*LACTONES
*EPIGENETICS
*APOPTOSIS inducing factor
*BRST cancer
*DNA methyltransferase

Author-Supplied Keywords: breast cancer
chemoprevention
DNA methyltransferases (DNMTs)
egenetic
histone deacetylase1 (HDAC1)
sulforaphane
withaferin

Abstract: With cancer often classified as a disease that has an important epigenetic component, natural compounds that have the ability to regulate the epigenome become ideal candidates for study. Humans have a complex diet, which illustrates the need to elucidate the mechanisms of interaction between these bioactive compounds in combination. The natural compounds withaferin A and sulforaphane inhibit the epigenetic machinery, cellular viability and apoptosis of breast cancer cells.
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