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ANTICANCER ACTIVITY OF GALLIC ACID ON CANCER CELL LINES, HCT15 AND MDA MB 231

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ABSTRACT

Cancer is the main leading cause of cancer deaths worldwide and chemotherapy is mainly used to treat cancer. However, the severe side effects of the drugs led the researchers to search for an alternative. Gallic acid, being a polyphenols, has been reported for its antiproliferative activity against many cancer cell lines. Moreover, its cytoprotective activity made gallic acid a potential compound in cancer therapy. Since colon cancer and breast cancers are among the most prevalent, the present study examines the anticancer property of gallic acid against two these two cancers, HCT15, human colon cancer cell line and MDA MB 231, human breast cancer cell line. The finding estimated the IC_{50} of the compound against the two cell lines. The present study also predicted the possible mechanism of the activity to be apoptosis, yet a detailed study is needed to find out the molecular targets.

KEYWORDS: Anticancer, Gallic Acid, HCT15, MDA MB231, MTT Assay