

**Anticancer Activity and Cytotoxicity Assay of *Citrus medica* Pulp – In Vitro**

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**ABSTRACT**

The present study investigated the anticancer activity and cytotoxic activity using the pulp of citron fruits in *in vitro* method. The total antioxidant activity was determined using phosphomolybdenum method. MTT assay was carried out to study the anticancer activity of the fruit pulp. The result of the assay showed that the fruit pulp at high concentration caused maximum cell death in MCF-7 cell line. Trypan blue exclusion assay was carried out to count the total number of cells, Hence this preliminary study shows that citron fruit as a promising fruit for developing anticancer drug. The bioactive compounds in citron fruit may contribute for the anticancer activity. Further studies may be carried out to identify the bioactive compound.