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Effect of methanolic extract of *Ailanthus excels* (Bark) Roxb. on human breast cancer cells

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Ailanthus excelsa Roxb is deciduous tree from the family Simaroubaceae and widely distributed in Asia and china *A.excelsa* is used to cure wounds and skin eruption and is used in the indigenous system of medicine febrifuge, bronchitis, asthma, and in condition of diarrhea and dysentery. *A excelsa* extract and some isolated compound have demonstrated medicinal properties such as significant antileukemic, antibacterial, antifungal and antifertility activities. The present work was designed to evaluate *in vitro* anticancer activity of bark of *A. excelsa* against human breast cancer cells. Methanolic extract of bark of *A. excelsa* was evaluated for inhibition of cell proliferation and migration of human breast cancer cell line MDA-MB-231. MTT- based cytotoxicity assay was used to assess the effect of methanolic extract of bark of *A. Excelsa* against proliferation of human breast cancer cell line. Wound healing migration assay was used to assess the effects on the migration ability of human breast cancer cells. Methanolic extract of *A. excelsa* showed significant anticancer activity against MDA-MB-231 human breast cancer cell line.

Biography

Dhabadge Vivek Nanasaheb has completed his post graduation in Botany from S.R.T.M.University Nanded, Maharashtra, India in 2011. After completion of post graduation he completed M.Phil (Botany) from SRTM University (MH), India. Currently he is working as UGC-Project fellow in school of life sciences SRTM University Nanded. Maharashtra he is also registered for Ph.D at the same university. His main area of research is Herbal products, Tyrosinases, Angiogenesis, Cancer, and Antioxidants.

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