Evaluation of In Vitro Anticancer Activity of Ethanolic Extracts of Pouzolzia Wightii Benn. Root Against HeLa Cell Line

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Abstract

Higher plants, especially medicinal plants play an important role in health care of human beings. Therefore medicinal herbs have received a significant interest in anti-cancer therapy. Medicinal herbs do not have any of these drawbacks. Medicinal plants provide natural products have valuable sources for anticancer drug discovery. Pouzolzia wightii belongs to family: Utricaceae, a native of Southern Western Ghats. In India it is distributed in Tamil Nadu and Kerala. Different parts of this plant have the various uses like anti-inflammatory, wound healing, ulcers, boils. The present study reports that ethanolic extracts of Pouzolzia wightii root have been tested for anticancer activity. In-vitro anticancer studies were performed against human cancer cell line (HeLa) and MTT assay was used to analyze the cell growth inhibition. The results showed that the ethanolic extracts of root of Pouzolzia wightii possessed a moderate amount of anticancer activity with an $IC_{50}$ value of 35.84 µg/ml and regression value 0.9751. The regression value confirms the significant activity of P. wightii root ethanolic extracts against HeLa cell line.

Keywords: HeLa, MTT assay, $IC_{50}$.  

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