**Title:** The methanolic extract of *Teucrium persicum* is toxic to cancer cells  

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**Abstract:** *Teucrium persicum* is an endemic plant of Iran which its pharmacologic properties have not been previously investigated.  

**Methods:** The methanolic extract was isolated from aerial parts of *Teucrium persicum* and was used for measuring its toxicity against several human cancer cell lines. Cell viability was examined by MTT assay.  

**Results:** The results of this study show that the methanolic extract, isolated from the aerial parts of *Teucrium persicum* dramatically inhibits cell proliferation of PC-3 prostate cancer cells with the IC50 value of 150μg/ml. The cytotoxic effects of *Teucrium persicum* are comparable to those of known anticancer drugs such as Doxorubicin, Imatinib and Carboplatin. *Teucrium persicum* extract also inhibited proliferation of T47D (breast) and SW480 (colon) cancer cells. The extract at 50μg/ml and 150μg/ml concentration values decreased proliferation of T47D cells by 55% and 65% respectively and the same concentrations inhibited SW480 cell proliferation up to 80%.  

**Conclusion:** In summary, our results indicate that *T.persicum* has potential anticancer properties. Studies are underway to identify the mechanisms of action.