

Anticancer effects of the medicinal plant *Scrophularia striata* extract on brain cancer cells

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Background

Studies show that some plant extracts have a role in inducing apoptosis in cancer cells leading to cancer cells death. *Scrophularia striata* Boiss belongs to Scrophulariaceae is one of the most important medicinal plants. The aim of this study was to determine the effects of *Scrophularia striata* extract on expression level of Bax apoptosis gene in *Homo sapiens* brain glioblastom cells.

Methods

In this laboratory experimental study, we used 0.1 mg/ml of *Scrophularia striata* in cell culture. Expression level was determined using Real Time PCR method. The data were statically analyzed using ANOVA.

Results

The results showed that the administration of 0.1 mg/ml of *Scrophularia striata* resulted in significant change in Bax expression level in *Scrophularia striata* extract receiving cells.

Conclusion

Our findings indicate that *Scrophularia striata* extract can induce apoptosis in glioblastom cells in cell culture.