

## Antiproliferative activity of aqueous extract of *Piper betle* L. and *Psidium guajava* L. on KB and HeLa cell lines

Type: Article

Abstract:

The aim of the present study was to assess the effect of the aqueous extracts of *Psidium guajava* and *Piper betle* plants on the proliferation of cancerous cell lines, that is, KB and HeLa cell line. Using the neutral red cytotoxicity assay, the IC(50) of *P. guajava* and *P. betle* were determined at 29.0 +/- 0.4 and 29.5 +/- 0.3  $\mu$ g/ml, respectively, indicating both plant extracts equally potent for the treatment of cancerous oral epidermal lesions. However, a less potent anti-proliferative activity was recorded by *P. guajava* towards HeLa cell line with an IC(50) of 51.0 +/- 0.6  $\mu$ g/ml, whereas *P. betle* extract did not affect the proliferation of HeLa.

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