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# Anticancer effect of petroleum ether extract from *Bidens pilosa* L and its constituent's analysis by GC-MS

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## Abstract:

### *Ethnopharmacological relevance:*

*Bidens pilosa* L, belonging to the family of Acanthaceae, has been used as an anticancer medicine in folk in China. In our preliminary experiments, the petroleum ether extract from *B. pilosa* showed good cytotoxic activity to human lung cancer A549 cell. However, to date, it's lack of the further study on antitumor effect, mechanism and active substances composition of the petroleum ether extract of *B. pilosa*.

### *Aim of the study:*

The study aimed to evaluate the anti-lung cancer efficacy of the petroleum ether extract from *B. pilosa* (PEEBP) *in vitro* and *in vivo*, explore the possible anticancer mechanisms, and further disclose the chemical composition of the extract.

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