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Phytochemical evaluation and anti-cancer screening of *Cardiospermum halicacabum* seeds extracts on different human cancer cell lines

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In modern life, the growth of different acute and chronic diseases increased and cancer is one of the disorders with significant prevalence rate among them. As knowledge has increased about the traditional medicine, the daily interest to use of natural products especially herbal drugs are becoming more from patients to physicians with aim to prevention of disease and safer way of treatment with lesser side effect for such conditions. Hence, this study was undertaken to evaluate the effect of *Cardiospermum halicacabum*, a traditional medical plant. Different part of this plant such as leaves, fruits and seeds are traditionally used for treatment of various diseases in different system of medicine such as Ayurveda, Chinese, Homeopathy and Unani. The seeds of plant selected for this study and subjected to Soxhlet extraction to obtain the various extracts, preliminary phytochemical studies performed for each extract and individually tested against four human cancer cell lines, HT-29, HCT-15, SK-MEL-2 and MCF7 with Sulforhodamine B colorimetric (SRB) cytotoxicity assay and compared with doxorubicin, a known anti-cancer drug. The most active extract selected and subjected to phytochemical analysis by GC-MS to find out the probable active components. Result of this work indicated the potential medicinal value of *Cardiospermum halicacabum* seeds as anti-neoplastic agents on human cancer cell and the GS-MS analysis showed the present of different fatty acids in the seed extract which can be responsible for the anti cancers activity.

Biography

Behzad Mohaddesi has completed his MSc on Medicinal Plants Sciences from Gujarat Ayurved University, India. He is pursuing PhD degree on Herbal Drug Technology in Department of Pharmaceutical Sciences, Saurashtra University. His area of work is on traditional medicine, ethno-pharmacology and evaluation of biological activity of medicinal plants.

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