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Evaluation of the cytotoxic effect of extracts of *Cuphea aequipetala* Cav. and *Verbena carolina* L. on cancer cell lines

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Cancer is itself a chronic degenerative disease, which has a greater incidence in adults than in younger people. It is the growth and uncontrolled spread of abnormal cells. The current therapy against cancer, causes severe effects and reactions in patients; however, treatments with new molecules could reduce these effects. Plants are an important source of molecules that can function as antitumor agents and help fight cancer. The purpose of this work is to propose a therapeutic alternative to the existing compounds for the cancer treatment looking forward to reduce the side effects. Therefore, in the present work, the cytotoxic effect of the chloroformic extracts of *Cuphea aequipetala* and *Verbena carolina*, on Hela, C6, and DU-145 cell lines was studied, the separation of the active extracts was carried out, and the responsible fraction of biological activity was determined. The phytochemical test showed that the plants possess compounds that could reach pharmacological activity such as alkaloids, phenols, and terpenes among others, confirming the previous studies that these plants have. Inhibition of growth cell was observed with the chloroformic extract of *V. carolina* at concentrations of 6.25 µg/ml on Hela, inhibition of 46.13±1.15% on the DU-145 66.25±0.26% and on the C6 line of 13.17±0.47; while for the chloroform extract of *C. aequipetala*, was observed a percentage of inhibition at concentration of 6.25 µg/ml on the Hela of 36.47±4.04%, while on DU-145 was 23.16±9.21% and C6 line was not tested.

Biography

Calleros F R obtained his Bachelor's Degree in 2015 and is a Chemist. He is currently pursuing his Master's Degree in Pharmaceutical Sciences at the UAM in Mexico City. He has worked for the Mexican Academy of Sciences, has attended multiple conferences and seminars, has collaborated with the Faculty of Chemistry at the National Autonomous University of Mexico, working on synthesis of hormones with therapeutic activity.

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