

Presentation Abstract Submission

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Research Title	Novel Chromenes derivatives as antimitotic drug for breast cancer cell line

Abstract:

Cancer considered a major public health problem around the world. Cancer therapies have witnessed significant developments in the recent past years; however, no single outstanding anticancer treatment has been discovered. Recently, many kinds of research are conducted around all over the world in order to find a cure or a new drug that can be used to treat cancer. Although great advancements in cancer treatment and control have been achieved, the undesired side effects that are accompanied by such treatments have serious effects on the health of the person. Therefore, alternative therapies that include less toxic and more potent anticancer drugs are needed to be developed. The aim of this research is to investigate 12 novel chromenes derivatives made with collaboration with chemistry department and to explore their effect on both breast and colon cancer cell lines. We found that two of these 12 compounds has a great anticancer potential against MDA-MB-231 as it act as antimitotic drug and cause depolymerization of the tubulin protein on these cell casing a mitotic arrest at M phase.