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Master Thesis Defense

Entitled

ANTICOLON CANCER ACTIVITY OF ARISTOLOCHIA ROTUNDA L. ROOT EXTRACT

by

Ghufran Ayman Alsalloum

Faculty Advisor

Rabah Iratni, Department of Biology

College of Science

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Abstract

Colon cancer is the third leading cause of cancer death worldwide and the first cause of cancer death in the UAE. While the conventional cancer therapy options like chemotherapy, radiation, and surgery are effective in the treatment of most cancers, they exhibit precarious side effects that can endanger the life of the patient. The present study explores the potential anticancer effect of *Aristolochia rotunda* L. root extract against human colorectal cancer cells. The root extract exhibited strong antiproliferative activity in a concentration- and time-dependent manner against human colorectal cancer cell lines. *A. rotunda* L. root extract also inhibited colony growth and induced cell cycle arrest. Annexin V staining revealed the induction of apoptosis in treated colon cancer cell lines. These finding provide the basis for the therapeutic potential of *A. rotunda* in the treatment of colon cancer.

Keywords: *Aristolochia rotunda* L., colon cancer, anticancer, root extract.