## Sudan University of Science and Technology College of Graduate Studies

## A Quantitative Structure Activity Relationship (QSAR) Study on Anthrapyrazoles anticancer agents

دراسة كمية لعلاقة التركيب بالفاعلية لمركبات الانثرابايرازول كمضادات للسرطان

A thesis submitted in fulfillment of the requirements of the degree of doctor of philosophy in chemistry

By

## HOWIDA ABDALLA HASHIM ISMAIEL

B.Sc. Chemistry M. Sc. Chemistry

Supervisor: Prof. Dr. Ahmed E. M. Saeed

Co supervisor: Dr. Mohamed O. M. Ahmed El-Faki

2016