الاستهلال

قَالَ تَعَالَىٰ: ﴿ ٱقۡرَأۡ بِٱسۡمِ رَبِّكَ ٱلَّذِي خَلَقَ ١ خَلَقَ ٱلۡإِنسَٰنَ مِنۡ عَلَقٍ ٢ ٱقۡرَأۡ وَرَبُّكَ ٱلۡأَكۡرَمُ ٣ ٱلَّذِي عَلَّمَ بِٱلۡقَلَمِ ٤ عَلَّمَ ٱلۡإِنسَٰنَ مَا لَمۡ يَعۡلَمۡ ٥

سورة العلق (الأيات ١–٥)

صدق الله العظيم

Dedication

I dedicate this work to my

parents

husband and daughters

brothers and sisters

Acknowledgements

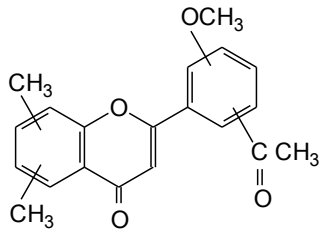
I would like to thank **Almighty Allah** for giving me the will to complete this wok.

A lot of people have contributed, in many ways, to the success of this work and as part of my appreciation to their contribution I would like to express my profound gratitude to each of them. I would like to thank Prof.. Mohamed Abdel Karim for his help and patience through the difficult periods I encountered during this research. I would always remember and appreciate your valuable contributions and suggestions during the course of this research.

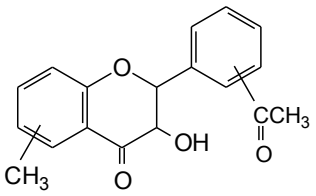
I thank my husband-Dr. Bala - who provided me with invaluable support, encouragement and advice in many aspects during my academic career.My sincere thanks to those who helped me in any way during this work.

Abstract

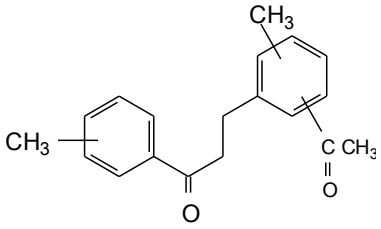
This study was carried out to investigate the major flavonoids of *Coriandrumsativum* leaves, *Bauhinia rufescens* roots, stem bark of *Albizzaamara* and to assess the antimicrobial activity of the isolated flavonoids. The flavonoids were extracted with ethanol and the crude extract was purified by paper chromatographywhere three flavonoids have been isolated. Compound A was isolated from *Coriandrumsativum*leaves, compound B from*Bauhinia rufescens* roots and compound C from stem bark of *Albizzaamara* .The structures of these flavonoids have been partially characterized by some spectral tools(UV , IR and ^{1}HNMR) .



Compound A



Compound B

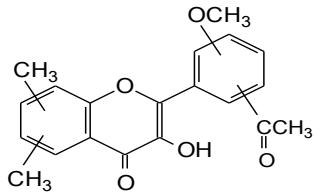


Compound C

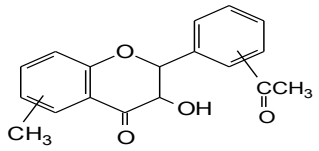
Compound A which was isolated from *Coriandrumsativum* was evaluated for antimicrobial activity against six standard pathogenic bacteria.The compound showed significant anticandidal activity .It also exhibited significant antibacterial activity against *Pseudomonas aeruginosa* and *Bacillus subtitles* and good activity has been detected against other test organisms.The crude extract from *Bauhinia rufescens* roots showed better inhibitory effect compared to compound B. While the crude extract showed significant antibacterial and antifungal properties. Compound B exhibited moderate antibacterial activity and weak antifungal properties.

المستخلص

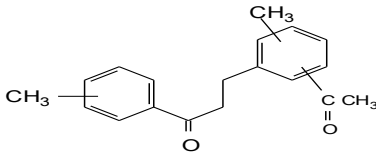
أجريت هذه الدراسة لاستخلاص الفلافونويدات الرئيسة من أوراق نبات الكسبرة، جذور الكولكول ولحاء العرد. كذلك تمت اختبار هذة المركبات كمضادات ميكروبات. تم فصل الفلافونيدA من اوراق الكسبرة ، الفلافونيدBمن جذورالكولكولاما الفلافونيدC فقد فصل من لحاء العرد. وقد تم توصيف تراكيب هذه الفلافونيدات جزئيا عن طريق مطيافية الاشعة فوق البنفسجية . مطيافية الاشعة تحت الحمراء ومطيافية الرنين النووىالمغنطيسى.



Compound A



Compound B



Compound C

وفي اختبارمضاد للميكروبات،أظهرالمستخلص الايثانولي الخام لـنبات الكسبرة فعالية مثبتة للميكروبات اعلى بالمقارنة مع المركب الفلافونيدي النقى المفصول من هذا النبات- المركبA . اما المركب الفلافونيدى الذى تم فصلة من نبات الكولكول فقد ابدى نشاطا ملحوظا ضد الميكروبات قيد الاختبار .

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