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شبكة المعلومات الجامعية



شبكة المعلومات الجامعية

التوثيق الالكتروني والميكرو فيلم

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التوثيق الالكتروني والميكرو فيلم

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بالرسالة صفحات
لم ترد بالأصل

Phytochemical and Biological Studies **on *Reseda muricata***

A Thesis

Submitted

By

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For

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

ربنا اغفر لنا ذنوبنا وإسرافنا في أمرنا وثبت أقدامنا وانصرنا
على القوم الكافرين * فأتاهم الله ثواب الدنيا
وحسن ثواب الآخرة والله يحب المحسنين *

صدق الله العظيم

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ABSTRACT

Name : Nehad Mohamed Omara Mostafa.

Title of thesis : Phytochemical and Biological Studies on *Reseda muricata*

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This work has been carried out to investigate *Reseda muricata* at its natural habitats in the Egyptian desert especially at K 140 in Dahab - Sharm El-Sheikh road and K 25 Noweibaa -Taba road. The phytochemical studies comprised investigation of sugars, amino acids, lipids and flavonoids. The remarkable phytochemical results are the presence of a new flavonoid trioside [Kaempferol -3-O- β -D- glucosyl-(1" $\rightarrow$ 2")-O- α -L-rhamn- oside -7-O- β -D- glucoside] together with its coumarylester [Kaempferol -3-O- β -D- glucosyl-(1" $\rightarrow$ 2") -O- α -L-rhamnoside-7-O- β -D-(6" $\rightarrow$ 3"-O-E-coumaryl-glucoside)], beside 7 known flavonoids and 5 phenolic acids.

By Making pharmacological and biochemical screening to the effect of 6 different plant extracts. It was found that the plant extracts have anti-inflammatory, analgesic and diuretic activities beside the absence of any obvious significant ulcerogenic effect. The biochemical studies revealed that the plant extracts is not only safe on RBCs, WBCs, Hb%, kidney function, liver function but also they decrease triglycerides, cholesterol, LDL and body weight, especially by flavonoids and diethylether extracts. *Reseda muricata* extracts in different concentrations showed significant decrease in the growth rate of some bacteria, fungi and yeast especially by the ethyl acetate extract.

Key words: *Reseda muricata*; *Resedaceae*; ecology; phytochemistry; flavonoids; phenolic acids; carbohydrates; amino acids; anti-microbial; pharmacology; kaempferol trioside, kaempferol coumaryl trioside.

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