

التقييم البيولوجي لبعض النباتات لمعالجة الداء السكري والدهون المرتفعة

رسالة مقدمة من الطالبة

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لاستكمال متطلبات الحصول علي درجة الماجستير
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قسم العلوم الزراعية البيئية

معهد الدراسات والبحوث البيئية

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صفحة الموافقة على الرسالة
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**BIOLOGICAL EVALUATION FOR SOME PLANTS
USED FOR TREATMENT OF DIABETES AND
HYPERLIPIDAEMICS**

Submitted By

Ghada Ramzy Yousef El-Menyawi

B.Sc. Agricultural Sciences, (Food Science) Fayoum University, 1987.

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A thesis submitted in Partial Fulfillment
Of
The Requirement for the Master Degree
In
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APPROVAL SHEET

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ABSTRACT

Diabetes can affect many different organ systems in the body and over time can lead to serious complications. This study aimed to decrease sugar concentration in blood and hyperlipidemia using dry Cinnamon and Amla fruits. Male albino rats Spargue Dawley Strain (66-rats) weighing (200 ± 10 g) were divided into three main groups as follows: The first main group (1) (6 rats) was fed on basal diet (as a control negative group). The second main group (30 rats) normal rats fed on standard diet contained 10% saturated fat to induce hyperlipidemic, then rats in the third main group were divided into 5 subgroups: Subgroup (1): hyperlipidemic rats fed on basal diet (positive control group). Subgroup (2): fed on high fat diet containing 1% Cinnamon and 1.5% Cinnamon and Amla. The third group (30 rats) the rats were injected with alloxan (120 mg / kg body weight) to induce diabetes. Then rats were divided into 5 subgroups: Subgroup :diabetic fed on basal diet as positive control group. Other subgroup: fed on basal diet containing 1% Cinnamon and 1.5% Cinnamon and Amla. After 4 weeks the effect of the different experimental diets on glucose, glycoulated, liver and kidney function and blood lipid profile were determined. It could be concluded that, feeding on Cinnamon and Amla fruits led to significant decrease in glucose level and blood lipids of positive group rats compared with diabetic and hyperlipidemia rats fed on basal diet. The reduction of glucose and blood lipids were observed after one week of feeding till the end of experimental period. Also, the animals had significantly lower in total cholesterol, triglyceride and total lipids in comparing to positive diabetic and hyperlipidemia rats fed on control.

Key – word: hyperlipidemia – Diabetes- Cinnamon and Amla fruits.

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