



بِسْمِ اللَّهِ الرَّحْمَنِ  
الرَّحِيمِ



## بحث رقم ( ٥ )

طبيعة البحث: بحث مشترك و منشور.

سابقة التقييم: تم تقييمه في تخصص تغذية دواجن في اللجنة العلمية الدائمة للإنتاج الحيواني (٤١) بتقدير جيد (٧٢%) وعدد نقاط (٧.٠٦).

عنوان البحث:

### EFFECT OF DIETARY GRAPE SEED SUPPLEMENTATION AS A NATURAL GROWTH PROMOTER ON THE GROWTH PERFORMANCE OF JAPANESE QUAIL

تأثير إضافة بذور العنب للعليقه كمنشط نمو طبيعي على الأداء الإنتاجي ومكونات الدم  
ومضادات الاكسده وميكروفلورا الامعاء للسمان الياباني النامي

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مكان النشر:

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### ABSTRACT

This study aimed to describe and reveal the health promoting activities associated with polyphenol in grape seeds (GS) supplemented to grower

diets of Japanese quail. A total of **270**, one day-old quail were distributed at equal body weights into three groups 1-as a control group (with no additives), 2-control diet +1% GS (powder), and 3-control diet +3% GS to examine the effect of GS supplementation on the growth performance, carcass characteristics, serum biochemical indices, antioxidants status, immune response and intestinal microflora in Japanese quail.

**The most important results revealed that:**

The inclusion of GS in quail diets improved growth performance tested at 38 days and during the period from 10 to 38 days of age, desirably decreased total cholesterol lipid profile, random blood sugar and liver enzyme activities, increased glutathione peroxidase, immune responses (IgG, IgA and IgM) and decreased thiobarbituric acid- reactive substances as compared with the control group, increased *Lactobacillus spp* as compared with the control group and decreased the number of both *E-coli* and *Salmonella* as compared with the control. Therefore, grape seeds up to 3% can be used as a growth promoter without impairing quail growth.