



شبكة المعلومات الجامعية  
التوثيق الإلكتروني والميكرو فيلم

# بسم الله الرحمن الرحيم



**HANAA ALY**



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التوثيق الإلكتروني والميكروفيلم



# شبكة المعلومات الجامعية التوثيق الإلكتروني والميكروفيلم



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# جامعة عين شمس

## التوثيق الإلكتروني والميكروفيلم

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# **STUDYING MEAT QUALITY TRAITS BY USING REGULATORY FACTOR GENES EXPRESSION IN BROILER STRAINS**

By

**KAREMAN AHMED NASSER**

B.Sc. Agric. Sc. (poultry production), Fac. Agric., Ain Shams University, 2013

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## **ABSTRACT**

**KAREMAN AHMED NASSER. Studying Meat Quality Traits by Using Regulatory Factor Gene Expression in Broiler Strains. Unpublished Master of Science dissertation, Ain Shams University, Faculty of Agriculture, Department of Poultry Production, Egypt, 2021.**

This experiment was designed to evaluate some productive traits of some commercial strains (Ross and Indian River) with treated by heat stress condition, It is important in genetic studies in order to determining genes responsible for meat quality to commercial strains. And also to compare some productive traits for strains under heat stress conditions.

**Main results could be summarized as follows:**

- Heat stress measurements (Respiratory rate and rectal temperature) were high significant of Indian River in this the age compared to Ross strain in trait Respiratory rate. But, Rectal temperature of Ross and Indian River strains was not a significant effect of strains.
- Growth characteristics (mainly body weight and body measurement) indicated that Indian River recorded significantly heaviest body weight and higher body measurements at different ages in this study compared to Ross strain.
- Carcass measurements showed that Ross strain was high significant in (heart, Weight of legs, Weight of head, Weight of head, Thigh, Weight of the pin, Weight of breast and Weight of major) compared to Indian River strain. But, found that no significant different between the treatment and control.
- Meat quality showed that some traits (PH, % moisture content and WHC) were effect significant for strains and treatment.
- The showed results that no significantly differences in Myostatin expression levels between Ross strain and Indian River strain in

control, In contrast, the birds under heat stress showed decrease Myostatin expression levels compared with control, whereas Ross strain exhibited significantly higher gene expression ( $p < 0.05$ ) than Indian River strain.

**Key words:** Heat stress, Myostatin gene, Ross strain and Indian River strain

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