

## عنوان مقاله:

The effects of Nano-Selenium and Sodium Selenite on gene expression of SelP, GPxF and SelW in broiler breeder Testis

## محل انتشار:

هفتمین کنگرہ بین المللی دامپزشکی طیور (سال: 1398)

تعداد صفحات اصل مقاله: 1

# نویسندگان:

H Jafarzadeh - Department of Animal Science, AharFaculty of Agriculture and Natural Resources, University of ;Tabriz, Ahar, Iran

.M Allymehr - Department of Obstetrics and Poultry, Faculty of Veterinary Medicine, Urmia University, Urmia, Iran

A Talebi - Department of Obstetrics and Poultry, Faculty of Veterinary Medicine, Urmia University, Urmia, Iran

S Asri - Department of Internal Diseases and Clinical Pathology, Faculty of Veterinary Medicine, Urmia University, Urmia, Iran

A Soleimanzadeh - Department of Obstetrics and Poultry, Faculty of Veterinary Medicine, Urmia University, Urmia, Iran

# خلاصه مقاله:

Objectives:Selenium is a trace element that is discovered and admitted for nearly Δ decades. It actively participates in oxidative stress resistance and reproductive performance. For male reproductive system development, optimum level of Selenium in testis is required. The aim of this study was to conduct a survey about effects of different forms of dietary selenium (Se) supplementation, mainly Nano-Se on gene expression of Selenoprotein P (SeIP), Glutathione peroxidase F (GPxF) and Selenoprotein W (SeIW) in broiler breeder rooster's testis. Materials & Methods:A total of Ψ<sub>o</sub> Arbor Acres Broiler Breeder males (more than F<sub>o</sub> weeks) were randomly divided into five groups, each of which included Ψ replicates of Y birds. These five groups contained a control group and four treatments receiving the same basal diet supplemented with o.Ψ mg Se/kg as Sodium Selenite (SS) in T1 or o.1Δ mg Se/kg as Nano-Selenium in TY or o.Ψ mg Se/kg as Nano-Selenium in TΨ or o.۶ mg Se/kg as Nano-Selenium in TF for F weeks after one week of adaptation. After experimental period, testis samples were collected for detecting expression of three specific SeIP, GPxF and SeIW genes. Results & Conclusion:The results indicated that byincreasing Nano-Se level in the diet, the mRNA expression level was increased and the highest mRNA expression of all three mentioned genes was observed in the treatment of o.۶ mg/kg Nano- Selenium (TF). Also, at the same amount of different types of Se sources (Nano-Se vs Sodium Selenite (SS)) the Nano-Se compared to the inorganic form (SS) had greater mRNA expression of .selenoprotein genes

# كلمات كليدى:

.Broiler Breeder, GPxF, Nano-Selenium, SelP, SelW

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