

P24. THE RECOVERY EFFECTS of OLIVE LEAF EXTRACTS on MERCURY EXPOSURE in SOME BIOCHEMICAL PARAMETERS of NIL FISH (*OREOCHROMIS NILOTICUS* L. 1758)

Hikmet Y. ÇOĞUN^{1*}, Özgür FIRAT², Özge FIRAT², Gülbin GÖK³, Tüzin AYTEKİN YÜZEREROĞLU⁴, Özge TEMİZ⁴, Ferit KARGIN⁴

¹Department of Physiology, Ceyhan Veterinary Faculty, Cukurova University, 1330 Adana, TÜRKİYE

²Department of Biology, Faculty of Science and Letters, Adiyaman University, 02040 Adiyaman, TÜRKİYE

³Research Lab. Gazi University, Gölbaşı, Ankara, TÜRKİYE

⁴Department of Biology, Faculty of Science and Letters, Cukurova University, 01330 Adana, TÜRKİYE

*hcogun@cu.edu.tr

In this study was to describe the effect of olive leaf extracts, oleuropein (OE), compound in blood biochemical parameters (ALT, AST and Glucose) on acute mercury (Hg) exposure in Nil fish *Oreochromis niloticus* for 4 days. Fish were exposed to 0.01 mg/L Hg and 0.01 mg/L Hg + 0.1 mg/L OE for 4 days. Biochemical parameters of fish blood were determined by spectrophotometric method. The exposure of *O. niloticus* to Hg alone resulted in decreases in biochemical (ALT, AST and Glucose) activity. OE, in combination with Hg, partially or totally caused alleviation for the toxic effect of Hg on biochemical parameters. The results of our study showed that OE has a protective effect against toxicity induced by Hg. All biochemical parameters were found to be statistically significant ($p < 0.05$) in Hg+OE concentrations.