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Abstract:

The present study examined the impacts of carbofuran on endocrinology of the catfish, Clarias gariepinus, for the first time and evaluated cortisol (CRT), triiodothyronine (T3), thyroxin (T4), 17β-estradiol (E2) and testosterone (TST) and the oxidative stress markers including SOD, CAT, GSTs, GSH. The toxic effects on the metabolic enzymes, G6PDH and LDH, in addition to lipid peroxidation (LPO) and DNA damage as biomarkers in Nile catfish, to sublethal exposures of carbofuran (0.16 and 0.49mg/L, for 35 days) were studied. Statistically significant differences between selected parameters between control and carbofuran-treated fish were recorded. Carbofuran caused a significant (p

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