

2nd International Conference on

TOXICOLOGY AND CLINICAL TOXICOLOGY

November 11-12, 2019 | London, UK

Variation in oxidative stress parameters after subchronic exposure to a Lambda cyhalothrin pesticide in Wistar rats

Abderraouf Ayachi University of Tebessa, Algeria

ambda cyhalothrin is a synthetic pyrethroid insecticide, which is increasingly used in agriculture and home pest control. Our

experimental study was carried out on 18 male WISTAR rats (Rattus rattus) divided into three groups: group A (06 rats) control, group B (06 rats) treated with LCT (05 mg / kg / day), group C (06 rats) treated with LCT (10 mg/kg/day) administered orally for 90 days The present work involves the evaluation of the potential toxicity of LCT on the kidneys of rats and the variation of some on oxidative stress parameters. The results obtained after the administration of LCT show that it has caused a generally prooxidizing effect, this is revealed by the reduction of the reduced glutathione level GSH and the enzymatic activity of the glutathione peroxidase GPx and catalase CAT in the kidneys and also by increasing the enzymatic activity of glutathione-S-



transferase GST and the level of MDA in treated rats with different doses compared to controls. Figure: General presentation concludes the nephrotoxic effects of Lambda cyhalothrin on rat

All of these results are signs of possible nephrotoxicity.

Biography

Abderraouf Ayachi has a BA and MA in Applied Toxicology from the Faculty of Exact Sciences and Nature and Life Sciences, University of Tebessa, Algeria as well as a Biologist in the Laboratory of the Mother and Child Hospital in Tebessa, Algeria. He has a great desire to develop his knowledge in the field of scientific research and gain more experience.

e: raouf1794@gmail.com