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Chlorpyrifos-ethyl: An organophosphate insecticide

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Chlorpyrifos-ethyl, an organophosphate insecticide, was evaluated for its histopathological effects on African catfish *Clarias gariepinus*, by light microscopy. Fish was exposed continuously to sublethal concentrations 0.00 (control), 0.045mg/l, 0.096mg/l and 0.192mg/l of chlorpyrifos-ethyl for a period of 8 weeks. The gills and liver samples were removed at two weeks intervals for histological examinations. No histopathological effects were observed in the control group. The histopathological alterations were characterized as oedema, occlusion of interlamella spaces, lamella hyperplasia, mucous cell secretion in the gill; degeneration, Hemosiderosis, sinusoids enlargement, hemorrhage, pyknotic nuclei, vacuolization of cell cytoplasm, infiltration of mono and polymorphonuclear leukocytes and RBC's, coagulation necrosis and congestion in the liver. These alterations were dose and duration dependent.

Biography

Okechukwu Emmanuel Ogueji is currently working in Department of Biology/Microbiology/Biotechnology, Federal University, Nigeria.

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