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RESEARCH ARTICLE.....

Histopathological alteration in gill of channa gachua exposed to an organophosphate

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ABSTRACT..... Channa gachua (family channidae) is an air breathing fish which live in oxygen depleted muddy water. The gill of fish is main site of gas exchange, ion regulation and nitrogen waste excretion .When fish exposed to sub-lethal concentration of Profenofos, an organophosphate pesticide, this pesticide enters into fish mainly through gills. The histopathological changes in the gills, due to exposure of Profenofos for 10 days, 15 days and 20 days include: curling and fusion in secondary lamellae, Hyperplasia, reduction in the respiratory surface area of filaments, fusion at the tip of the lamellae, sub-lamellar and sub epithelial space occur.

KEY WORDS..... Profenofos, Histopathology, Gill, Channa gachua

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