

# HISTOPATHOLOGICAL ALTERATIONS INDUCED BY MERCURIC CHLORIDE, CALDAN 50 SP AND THEIR MIXTURE IN THE TESTES OF A FRESH WATER FISH, CHANNA PUNCTATA (BLOCH)

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## Abstract

Present study investigates synergistic and individual effects of Mercuric chloride and Caldan 50SP on histological profile of testes of *Channa punctata*. Ten fishes were exposed to sub-lethal concentration (1/10th 96hr. LC<sub>50</sub>), individually and 1/20th in combination (synergistic effect) for 15, 30 and 60 days, respectively, along with a control. Noticeable histopathological changes were observed in the testes. The extent of damage was exposure dependent under the impact of individual toxicants; however, their synergistic effects pronounced more severe damage even when individual toxicants were in lesser concentration and exposure time was also comparatively lesser. These findings are quite suggestive of reproductive impairments.

## Key words

Fish, Testes, Mercuric chloride (HgCl<sub>2</sub>), Caldan 50SP (C5OSP), Synergistic effect

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