

### عنوان مقاله:

Effects of aflatoxin B<sub>1</sub> on growth performance, health indices, phagocytic activity and histopathological alteration in Fenneropenaeus indicus

## محل انتشار:

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#### خلاصه مقاله:

Mycotoxins contamination of feedstuff for aquatic animals is common in regions with humid tropical conditions. In this study Indian white shrimp, Fenneropenaeus indicus, (11.Y9 ± 1.Y9 g) were fed with diets containing o, Yo, Ao, 100, Yoo, Foo, Aoo and 1900 ppb levels of aflatoxin B1 (AFLB1) for A weeks. Final weight, aflatoxin B1 residue (Y-week intervals), Total Hemocyte Count (THC), Total Plasma Protein (TPP), Phagocytic Activity (PA), Survival rate (F-week intervals) were determined. Histopathological alterations in hepatopancreas, midgut and muscle tissues were studied at the end of F and Λ weeks. Shrimps fed with the 15.0, Λ.0 and F.0 ppb concentrations of AFLB1 exhibited slow growth, and more reddish discoloration disseminated over the body at 4th week. Growth parameters, survival rate and health indices (THC, TPP) of F. indicus, are affected by the different doses of AFLB1 in diets. At the end of Ath week, doses of AFLB1 in the diets showed negative correlation to final weight, survival rate, THC and TPP (r = - o. m)r, -o. fom, -o. ymv and o.۶۴۹ at P<o.ool, respectively). Moreover, significant histopathological alterations in the hepatopancreas, midgut and muscle tissues of exposed shrimps to different levels of AFLB1 were observed and these alterations are obviously .(indicated by changes in the health indexes (THC and TPP

## کلمات کلیدی:

Aflatoxin B1, Fenneropenaeus indicus, growth performance, health indices, histopathological alteration

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