

### عنوان مقاله:

Research Article: Pathological effects of Aspergillus toxicity on gill structure of Litopenaeus vannamei in Iran by two different toxicological investigations

## محل انتشار:

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#### خلاصه مقاله:

This histological study was conducted to discover the response of Litopenaeus vannamei to various levels of aflatoxigenic fungi (Aspergillus) toxicity. For this purpose, Foo specimens of live shrimp were gathered from a shrimp culture site in Iran. According to the results of the high-pressure liquid chromatography (HPLC) analysis, Aspergillus parasiticus had a higher production capability of total aflatoxin (TAF) (۱۰۷۳.۸۰۴ ng g-۱) compared to Aspergillus flavus (۲۹۲.۳۴۹ ng g-1). Two experiments with different toxicities of Aspergillus were assayed. In both experiments, the shrimps in 9 experimental groups were exposed to o, 1, 0, 10, 10, and Yo ml of fungal spore suspension (FSS) in the feed (E1) and culture medium water (EY) in triplicate in each group for F weeks. The histopathology results of the gill tissue in the control group were normal. However, the inflammation, hemocytic infiltration, melanization, edema, and necrosis (as the main histopathological changes in the gill tissue) were observed after YA days of the experiment when the toxicity of both experiments reached \λ μg kg-\ total aflatoxin and \ ml FSS in E\ and EY, respectively. Furthermore, .(it was recognized that the histological alterations index (HAI) of gill was higher in EY (0-140) than in E1 (0-145)

## کلمات کلیدی:

Aspergillus parasiticus, Aspergillus flavus, Aflatoxin, Gill, Litopenaeus vannamei

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