عنوان مقاله:

Expression of afIR, veA and laeA as regulators of aflatoxins and cyclopiazonic acid biosynthesis pathway in Aspergillus flavus

محل انتشار:

مجله بین المللی میکروبیولوژی مولکولی و بالینی, دوره 7, شماره 1 (سال: 1396)

تعداد صفحات اصل مقاله: 8

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خلاصه مقاله:

In this study, the production of aflatoxin B\ (AFB\) and cyclopiazonic acid (CPA) was investigated in toxigenic and non-toxigenic Aspergillus flavus with respect to expression of aflR, veA and laeA genes that are involved to toxins production. A. flavus strains were cultured in YES broth at YA °C for °f days and the presence of (AFB\) and (CPA) was confirmed and measured by TLC and HPLC. The expression of aflR, veA and laeA was compared in toxigenic and non-toxigenic strains after cDNA preparation by Real-Time PCR. The results showed that the highest concentrations of AFB\ and CPA were °f \(\delta \cdot \delta \delta \delta \) and (CPA were °f \(\delta \cdot \delta \del

كلمات كليدى:

Aspergillus flavus, Aflatoxin B\ (AFB\), Cyclopiazonic acid (CPA), aflR, veA, laeA, Gene expression

لینک ثابت مقاله در پایگاه سیویلیکا:

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