

عنوان مقاله:

Long-Non-Coding RNAs in Hepatocellular Carcinoma: Evidences from Aflatoxin B1 treated peripheral blood mononuclear cells

محل انتشار:

اولین کنفرانس ملی یافته های نوین زیست شناسی (سال: 1395)

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خلاصه مقاله:

Hepatocellular carcinoma (HCC) is one of the most frequently occurring cancers with poor prognosis, therefore novel diagnostic or prognostic biomarkers and therapeutic targets for HCC are urgently required. Long non-cod-ing RNAs (lncRNAs) are a new classes of gene regulators which involved in the regulating a range of physiological processes of immune system including activation of innate immune responses, T cell development, differen-tiation and activation. Recent studies indicated that HCC-related lncRNAs play critical regulatory roles in the development and progression of HCC, while their dysregulation is associated with diverse biological processes including proliferation, differentiation, apoptosis, invasion, and metastasis. Even though the underlying mech-anism of HCC-related lncRNAs remains unknown, understanding the differential expression and potential func-tional roles of lncRNAs in HCC is essential. In this study, we examined the effect of Aflatoxin B1 (AFB1)-as one of the most confirmed toxins in the pathogenesis of HCC- treatment on the expression level of NF- κ B in primary human PBMC culture. Our data revealed that the AFB1 can stimulate the expression level of inflammatory and immunogenic molecules through NF- κ B transcription factor. Moreover, we aimed that to evaluate some of the immunity related lncRNAs in treated cells which is under elaborate investigation in our laboratory. We hope that to provide a new biomarker, using the differential expression of lncRNAs and mRNAs in the AFB1 treated PBMCs

کلمات کلیدی:

Aflatoxin B1, NF- κ B, lncRNAs, Hepatocellular Carcinoma, PBMCs

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<https://civilica.com/doc/731747>

