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Biochemical and Molecular Study of long non coding RNA (HOTTIP, ZEB-AS1 and MEG-3) in Hepatocellular carcinoma



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Abstract

Background and Aim: Hepatocellular carcinoma is the subsequent driving reason for cancer death around the world. The high mortality of HCC patients is linked to delayed diagnosis. Long noncoding RNAs (lncRNAs) have been demonstrated as significant controllers in diverse human cancers. This study expected to clear up the potential diagnostic and prognostic value of long non coding RNA (HOTTIP, ZEB-AS1 and MEG3) in HCC. This Study included 150 subjects (50 HCC and 50 cirrhotic and 50 healthy subjects)

Methods: Long non-coding RNA gene expression was estimated by real-time PCR technique.

Results: HOTTIP and ZEB-AS1 were higher in HCC than cirrhotic and healthy ones (P<0.001). MEG-3 was significantly lower in HCC group compared with cirrhotic and control groups (P<0.001). In HCC patients higher HOTTIP and ZEB-AS1 were linked with nodal and distant metastases and lower MEG-3 was correlated with larger tumor size also higher HOTT IP and lower

MEG-3 were associated with lower overall survival. ROC curve analysis revealed that values >10.35 >15 and < 2.3 for HOTT IP, ZEB-AS1 and MEG-3 respectively.

Conclusion: HOTTIP, ZEB-AS1 and MEG-3 could be considered as diagnostic for HCC and HOTTIP

and MEG-3 may represent prognostic biomarkers in HCC.

Biography:

Naglaa S. Elabd has completed MD at the age of 36 years from Faculty of Medicine - Menoufia University. She worked as Lecturer of Tropical Medicine, Faculty of Medicine - Menoufia University- Egypt science 2015. She has published 5papers and 3 papers accepted in reputed journals

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