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*Retrospective Cohort Study*

**Role of relevant immune-modulators and cytokines in hepatocellular carcinoma and premalignant hepatic lesions**

Zekri AN *et al.* Role of immune-modulators in HCC progression

Abdel-Rahman N Zekri, Somaya El Deeb, Abeer A Bahnassy, Abeer M Badr, Mona S Abdellateif, Gamal Esmat, Hosny Salama, Marwa Mohanad, Ahmed Esam El-dien, Shimaa Rabah, Assmaa Abd Elkader

**Abstract**

**AIM**

To assess the levels of different immune modulators in patients with hepatocellular

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## Role of estrogen in hepatocellular carcinoma: is inflammation the key ...

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2014年4月8日 - EstrogenEstrogen receptorHepatocellular carcinomaInflammation ... adenoma, which are considered premalignant stages of HCC [20, 21]. ... The different roles of the ER subtypes in liver disease, especially ER-β, have yet to be ..... and immune suppression by the secretion and modulation of cytokines, ...

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Immune cells have a broad impact on tumour initiation, growth and progression and many of these effects are mediated by proinflammatory cytokines. Among these .... Another inflammation-linked cancer in which inflammatory cytokines have a significant role is HCC, the most common form of liver cancer. HCC often ...

## Chronic Inflammation and Cytokines in the Tumor Microenvironment



Role of relevant immune-modulators and cytokines in hepatocellular carcinoma



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immune metastasis hepatitis. INFLAMMATION AND CANCER ..... TABLE 1. Selected Cytokines  
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## The Inflammatory Microenvironment in Hepatocellular Carcinoma: A