



Molecular mechanism of hepatitis B virus X protein function in hepatocarcinogenesis



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Molecular mechanism of hepatitis B virus X protein function in hepatocarcinogenesis

Ming Geng, Xuan Xin, Li-Quan Bi, Lu-ting Zhou, Xiao-Hong Liu

### Abstract

Many factors are considered to contribute to hepatitis B virus (HBV)-associated hepatocellular carcinoma (HCC), including products of HBV, HBV integration and mutation, and host susceptibility. HBV X protein (HBx) can interfere with





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... The HBV genome is a 3.2-kb circular, partially double-stranded DNA **molecule** with four ... such as the massive production of S antigen and intercellular transmission of HBV CCC **molecules**. ...

We thank all the members of the Division of **Molecular** Biology, Cancer Research Institute ...

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... the **X** gene that codes HBx, a 154 amino acid polypeptide with a **molecular** weight of ... HBx perturbs intracellular Ca<sup>2+</sup> homeostasis by acting on caspase-3-dependent extrusion **mechanisms**. ...

signaling pathway is attributed, at least in part, to the anti-apoptotic **mechanism** of HBx. ...

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... expressing cell lines (24) are an invaluable tool for defining the **molecular mechanism** of pX ... a broadly-acting, weak, transcriptional activator with more than one **mechanisms** of transactivation. ...

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... In this regard, potential target **molecules** of HBx could be the HIF-1 $\alpha$ -regulating factors ... hydroxylase enzyme that modifies Asn-803 of HIF-1 $\alpha$  using oxygen **molecule**, which resulted ... 8) may suggest a potential **molecular mechanism** of cooperation between HBx and HIF-1 $\alpha$  under ...

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... 92 The key **molecules** in the IGF-II pathway are the ligands IGF-I and II, IGF ... II expression was