

Special Issue

Hepatitis B Virus and Carcinogenesis—Pathophysiology, Disease and Treatment

Message from the Guest Editor

Hepatitis B virus (HBV) is a major cause of hepatocellular carcinoma (HCC). Despite advances in anti-HBV therapies, there is still no cure for HBV. Current antiviral drugs improve overall patient outcomes through the effective suppression of viral replication, but they do not eradicate HBV, particularly the cccDNA, which often causes viral reactivation as well as liver disease progression after cessation of treatment. HCC still occurs in a subset of patients on therapy, even with maintained HBV remission. HBV can drive liver carcinogenesis through direct oncogenic potential. In addition, other direct or indirect viral factors can induce HCC, including HBV genotypes, molecular variants (pre-S deletion, mutations in the HBx/precore regions), and viral antigens (HBsAg, HBcrAg, and HBx).

This Special Issue aims at providing an updated overview of basic, translational, and clinical knowledge on the virology, pathophysiology, immunology, and molecular genomics of HBV and HBV-associated HCC as well as on the development of innovative diagnostic and therapeutic approaches, while debating their promises and pitfalls.

Guest Editor

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Deadline for manuscript submissions

closed (31 May 2021)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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*International Journal of
Molecular Sciences*
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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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