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## Innate immune recognition of hepatitis B virus

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4577638>

Sep 28, 2015 · **Hepatitis B virus (HBV)** is a **hepatotropic DNA virus** and its **infection results** in acute or **chronic hepatitis**. It is reported that the host **innate immune** system contributes to **viral control** and **liver pathology**, while whether and how **HBV** can trigger the components of **innate immunity** ...

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Author: Hong-Yan Liu, Xiao-Yong Zhang

Publish Year: 2015

## Innate and adaptive immune responses in chronic hepatitis ...

<https://gut.bmj.com/content/61/12/1754> ▾

Dec 01, 2012 · While most viruses enter a logarithmic phase of propagation immediately after **infection** (eg, **hepatitis C virus (HCV)**, **HIV**, **human cytomegalovirus (HCMV)**, **influenza virus**, **dengue virus**), **HBV infection** is characterised by a delayed **amplification of HBV replication** and spread.

Cited by: 373

Author: Antonio Bertoletti, Antonio Bertoletti, Carlo ...

Publish Year: 2012

## Innate Immune Recognition of Hepatitis C Virus | SpringerLink

[https://link.springer.com/chapter/10.1007/978-4-431-56098-2\\_13](https://link.springer.com/chapter/10.1007/978-4-431-56098-2_13) ▾

Oct 29, 2016 · **Innate immune recognition of HCV** is initiated by hepatocytes and other parenchymal and **non-parenchymal liver cells** as well as specific **immune cell subsets** infiltrating the liver, signaling through various intracellular pathways that culminate in **induction of interferons, ISGs** and cytokines.

Cited by: 5

Author: Hong-Yan Liu, Xiao-Yong Zhang

Publish Year: 2015

## Innate immune recognition of viral infection | Nature ...

[www.nature.com/articles/ni1303](http://www.nature.com/articles/ni1303)

Jan 19, 2006 · **Virus-associated molecules** such as genomic DNA and RNA or double-stranded RNA (dsRNA) produced in **virally infected cells** can be **recognized by host pattern-recognition receptors**

**Name of Journal:** *World Journal of Gastroenterology*

**Manuscript NO:** 53702

**Manuscript Type:** MINIREVIEWS

**Innate immune recognition and modulation in hepatitis D virus infection**

Jung S *et al.* Innate immunity in hepatitis D

Stephanie Jung, Sebastian Maximilian Altstetter, Ulrike Protzer

### **Abstract**

Hepatitis D virus (HDV) is a global health threat with more than 15 million humans affected. Current treatment options are largely unsatisfactory leaving chronically infected humans at high risk to develop liver cirrhosis and hepatocellular carcinoma.

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Innate immune recognition and modulation in hepatitis I



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## Innate immune recognition of viral infection | Nature ...

<https://www.nature.com/articles/ni1303>

Jan 19, 2006 · Induction of the antiviral innate immune response depends on recognition of viral components by host pattern-recognition receptors. Members of the Toll-like receptor family have emerged as key ...

Cited by: 2165

Author: Taro Kawai, Shizuo Akira

Publish Year: 2006

## Advances in Targeting the Innate and Adaptive Immune ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7018702>

Feb 07, 2020 · "Functional cure" can be achieved in <10% of CHB patients with currently available therapeutic agents. The dysfunction of specific immune responses to hepatitis B virus (HBV) is considered the major cause of persistent HBV infection. Thus, modulating the host immune system to strengthen specific cellular immune reactions might help eliminate HBV.

Author: Zhongji Meng, Yuanyuan Chen, Mengj...

Publish Year: 2020

## Innate immunity modulation in virus entry - ScienceDirect

<https://www.sciencedirect.com/science/article/pii/S1879625711000186>

Highlights Virus entry is an indispensable first step for cell infection. Viruses may escape or hijack innate immune receptors for cell entry. Anti-viral innate immunity can be inhibited by entering virion-incorporated proteins. Viruses might hijack autophagy early post entry for promoting their replication.

Cited by: 26

Author: Mathias Faure, Mathias Faure, Chantal R...

Publish Year: 2011

## Innate Immune recognition of viral infection

<https://www.researchgate.net/publication/6756335...>

Innate Immune recognition of viral infection. Toll-like receptors (TLRs) are key molecules of the innate immune systems, which detect conserved structures found in a broad range of pathogens and triggers innate immune responses. A subset of TLRs recognize viral components and induce antiviral responses by producing type I interferons.

## Innate and Adaptive Immune Responses in Chronic HCV ...



Innate immune recognition and modulation in hepatitis



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### Advances in Targeting the Innate and Adaptive Immune ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7018702>

Feb 07, 2020 · “Functional cure” can be achieved in <10% of CHB patients with currently available therapeutic agents. The dysfunction of specific immune responses to hepatitis B virus (HBV) is considered the major cause of persistent HBV infection. Thus, modulating the host immune system to strengthen specific cellular immune reactions might help eliminate HBV.

Author: Zhongji Meng, Yuanyuan Chen, Meng... Publish Year: 2020

### Innate immunity modulation in virus entry - ScienceDirect

<https://www.sciencedirect.com/science/article/pii/S1879625711000186>

The surfactant protein (SP-A) is an innate immune factor of the lung, amniotic fluid and vaginal tract. SP-A binds to high-mannose carbohydrate residues of several human cytomegalovirus (CMV) glycoproteins. SP-A binding to CMV stimulates virus entry in permissive lung rat cells [ 12 ].

Cited by: 26 Author: Mathias Faure, Mathias Faure, Chantal R...

Publish Year: 2011

### Innate immune recognition of hepatitis B virus

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4577638>

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