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## B cell activating factor (BAFF) in the natural history of chronic ...

Oct 5, 2012 - In two **patients** with **HCV** and MC we correlated **BAFF** with **HCV** RNA after ...  
Keywords: **B** cell activating factor, **hepatitis C virus**, interferon, mixed ... In the absence of **BAFF**, **B** cell survival and **maturation** are defective. ... Over-**expression** of **BAFF** in mice and in humans is **associated** with ... **Cancer Res.** 2009 ...

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## The Role of BAFF System Molecules in Host Response to ...

In mice, **BAFF-R** **expression** is more pronounced on FO **B cells** and germinal center ... The most prominent phenotype **associated** with TACI deficiency has been ... **HBV** carriers have the lowest and **hepatocellular carcinoma** **patients** have the ... A soluble form of **B** cell **maturation** antigen, a receptor for the tumor necrosis ...

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Decreased of BAFF-R expression and B cells maturation in



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**Hepatocellular carcinoma** (HCC) is one of the most lethal cancer types, and chronic infection with **Hepatitis B** Virus (HBV) is identified as the strongest risk factor for HCC. Transmembrane Protein 173 (TMEM173) is a pattern recognition receptor which functions as a major regulator of the innate immune response to viral and bacterial infections.

**Cited by:** 15**Author:** Yang Bu, Fang Liu, Qing-An Jia, Song-...**Publish Year:** 2016

## Hepatitis B virus and hepatocellular carcinoma

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2517704>

Oct 24, 2000 · **Hepatitis B** virus markers in serum and tissues of **patients** with **hepatocellular carcinoma** The first direct evidence of an association between chronic HBV infection and HCC was a report of five **patients** with HCC whose serum was positive for HBV surface antigen (HBsAg) ( Sherlock et al . 1970 ).

**Cited by:** 366**Author:** Patrick Arbuthnot, Michael Kew**Publish Year:** 2001

## Pathogenesis of hepatitis B virus—related hepatocellular ...

<https://www.sciencedirect.com/science/article/pii/S0016508504015951>

Chronic infection with the **hepatitis B** virus (HBV) is a major risk factor for **development** of **hepatocellular carcinoma** (HCC). The pathogenesis of cancer in HBV infection has been extensively analyzed, and multiple factors appear to play a role.

**Cited by:** 487**Author:** Christian Bréchet**Publish Year:** 2004



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Decreased function of peripheral blood dendritic cells in ...  
<https://onlinelibrary.wiley.com/doi/abs/10.1046/j.1440-1746.2000.02161.x>

Dec 25, 2001 · **Decreased** function of peripheral blood dendritic cells in patients with **hepatocellular carcinoma with hepatitis B** and C virus infection Shinichi Kakumu First Department of Internal Medicine and Research Center for Infectious Disease, Aichi Medical University, Aichi and  
**Cited by:** 136 **Author:** Shinichi Kakumu, Satomi Ito, Tetsuya Ishik...  
**Publish Year:** 2000

Hepatitis B virus and hepatocellular carcinoma  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2517704>

**Hepatitis B** virus markers in serum and tissues of patients with **hepatocellular carcinoma** The first direct evidence of an association between chronic HBV infection and HCC was a report of five patients with HCC whose serum was positive for HBV surface antigen (HBsAg) ( Sherlock et al . 1970 ).  
**Cited by:** 366 **Author:** Patrick Arbuthnot, Michael Kew  
**Publish Year:** 2001

Autophagy and microRNA in hepatitis B virus-related ...  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4698484>

Jan 07, 2016 · Interestingly, IL-1β and HMGB1 were significantly upregulated in the serum of patients with **hepatitis B virus-related** acute-on-chronic liver failure[82,83], and the **expression** of IL-18 in peripheral blood mononuclear cells from patients with acute HBV infection was higher compared with the **expression** in patients with chronic HBV infection. These reports imply that HBV may affect ...  
**Cited by:** 10 **Author:** Shan Ying Wu, Sheng Hui Lan, Hsiao-Sheng...  
**Publish Year:** 2016

High expression of AKR1B10 predicts low risk of early ...  
<https://www.nature.com/articles/srep42199>

Feb 09, 2017 · Patients with **high AKR1B10 expression** showed significantly **higher DFS rates** than those with **low expression** at 6 months (75.0 vs 67.6%), 12 months (64.4 vs 36.4%), and 24 months (38.9 vs 18.9%) ( P = 0.018; Fig. 3A ). Median DFS was 15 months in the **high AKR1B10 expression group** and 9 months in the low expression group.  
**Cited by:** 8 **Author:** Yan-Yan Wang, Lu-Nan Qi, Jian-Hong Zhon...  
**Publish Year:** 2017

Myeloid-derived suppressor cells in the patients with ...  
<https://www.nature.com/articles/s41598-019-38785-3>

Feb 19, 2019 · Myeloid-derived suppressor cells in the patients with liver resection for **hepatitis B virus-related hepatocellular carcinoma** Skip to main content Thank you for visiting nature.com.  
**Author:** Wei-Chen Lee, Wei-Chen Lee, Yu-Chao ... **Publish Year:** 2019

MicroRNA-802 induces hepatitis B ... - Cell Death & Disease  
<https://www.nature.com/articles/s41419-019-1999-x>

Oct 14, 2019 · **Hepatitis B** virus (HBV) is a member of the Hepadnavirus family and its infection is a big public health concern 1,2,3.HBV infection is the first risk factor of **hepatocellular carcinoma** (HCC ...  
**Author:** Yuanyuan Wang, Jingmei Cao, Shiyun Z... **Publish Year:** 2019

Pathogenesis of hepatitis B virus—related hepatocellular ...  
<https://www.sciencedirect.com/science/article/pii/S0016508504015951>

The issue of **persisting HBV infections** in patients without detectable **hepatitis B surface antigen** (HBsAg) detection in the **serum** has been a matter of debate for many years.4, 32, 33 Despite these controversies, most findings indicate that **occult HBV infections** occur and that their prevalence varies widely in different geographic areas. Highest **rates of occult HBV infection** have been reported in patients ...  
**Cited by:** 491 **Author:** Christian Bréchet  
**Publish Year:** 2004

Decreased Expression of Hepatocyte Nuclear Factor 4α ...  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4294483>

Jan 09, 2015 · Introduction. **Hepatocellular carcinoma** (HCC) 4 is the second leading cause of cancer-related mortality worldwide, and the burden of this devastating malignancy is expected to increase further in the coming years (1, 2).Epidemiological studies have provided overwhelming evidence for a causal role of chronic **hepatitis B virus** (HBV) infection in the **development** of HCC (), but the molecular ...  
**Cited by:** 56 **Author:** Qian Wu, Hai-Ou Liu, Yi-Dong Liu, Wei-Si Liu...  
**Publish Year:** 2015

Increased PD-1 and decreased CD28 expression in chronic ...  
<https://www.researchgate.net/publication/45951052...>

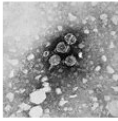
Request PDF | Increased PD-1 and **decreased CD28 expression** in chronic **hepatitis B** patients with advanced **hepatocellular carcinoma** | **Hepatitis B** infection is a well-known cause of **hepatocellular** ...

Immunology of hepatocellular carcinoma  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4539401>

Aug 18, 2015 · Core tip: **Hepatocellular carcinoma** (HCC) is a heterogeneous disease caused by multiple factors, and has its immunopathogenesis complicated by the paradoxical role of various immune cells. This review provides a comprehensive insight into the immunological mechanisms that control hepatocarcinogenesis. A better and fuller understanding of the precise function of each cellular subset ...  
**Cited by:** 33 **Author:** Meenakshi Sachdeva, Yogesh K Chawla, S...  
**Publish Year:** 2015

Hepatitis B virus

Dna Viru



Hepatitis B virus, is a partially double-stranded DNA virus, a species of the genus Orthohepadnavirus and a member of the Hepadnaviridae family of viruses. This virus causes the disease hepatitis B.

Wikipedia

**Scientific name:** Hepatitis B virus

**Genus:** Orthohepadnavirus

**Family:** Hepadnaviridae

**Biological rank:** Species

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

**Manuscript NO:** 54114

**Manuscript Type:** ORIGINAL ARTICLE

### *Retrospective Study*

Decreased of BAFF-R expression and B cells maturation in patients with hepatitis B virus-related hepatocellular carcinoma

Khlaiphuengsin A *et al.* BAFF-R and B cell maturation in HCC

Apichaya Khlaiphuengsin, Natthaya Chuaypen, Pimpayao Sodsai, Supranee Buranapraditkun, Tadech Boonpiyathad, Nattiya Hirankarn, Pisit Tangkijvanich

### **Abstract**

#### BACKGROUND

Recent evidence has indicated the role of B cells and B cell-activating factor (BAFF) in the development of hepatocellular carcinoma (HCC).

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