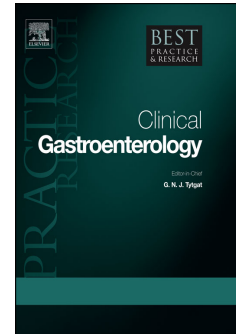


# Accepted Manuscript

Hepatitis B virus infection and the immune response: The big questions

Lauke L. Boeijen, Ruben C. Hoogeveen, Andre Boonstra, Georg M. Lauer



PII: S1521-6918(17)30041-0

DOI: [10.1016/j.bpg.2017.05.003](https://doi.org/10.1016/j.bpg.2017.05.003)

Reference: YBEGA 1513

To appear in: *Best Practice & Research Clinical Gastroenterology*

Received Date: 1 April 2017

Revised Date: 26 April 2017

Accepted Date: 13 May 2017

Please cite this article as: Boeijen LL, Hoogeveen RC, Boonstra A, Lauer GM, Hepatitis B virus infection and the immune response: The big questions, *Best Practice & Research Clinical Gastroenterology* (2017), doi: 10.1016/j.bpg.2017.05.003.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

# Hepatitis B virus infection and the immune response: The big questions

Lauke L Boeijen<sup>1</sup>, Ruben C Hoogveen<sup>1,2</sup>, Andre Boonstra<sup>1,\*</sup>, Georg M Lauer<sup>2</sup>

<sup>1</sup> Department of Gastroenterology and Hepatology, Erasmus MC, University Medical Center Rotterdam, the Netherlands

<sup>2</sup> Division of Gastroenterology, Massachusetts General Hospital and Harvard Medical School, Boston, MA, USA

## \*Corresponding author

Andre Boonstra PhD

E-mail: p.a.boonstra@erasmusmc.nl

**Keywords:** Hepatitis B; NK cell; B cell; T cell; Kupffer cell; adaptive; innate; immune response

## Word count:

Abstract: 150

Text (including references): 8127

Text (excluding references): 5173

## Practice Points

- Clinical events during the natural history of chronic hepatitis B virus (HBV) are intricately linked to the host immune system, but the details of host-virus interactions remain insufficiently understood
- HBV is sensed by the immune system, but the ensuing antiviral responses are not sufficient to prevent chronicity in most newborns and some adults

## Research Agenda

- To understand the basic mechanisms of HBV clearance, persistence and long lasting HBV cure by using the most advanced and detailed biomedical techniques, down to the single cell level.
- To gather more information on the intrahepatic, rather than the peripheral, immune populations, as their phenotype and function are very different
- To focus on longitudinal assessment of immune parameters, thereby excluding effects of cohort variation in HBV research

Download English Version:

<https://daneshyari.com/en/article/5654494>

Download Persian Version:

<https://daneshyari.com/article/5654494>

[Daneshyari.com](https://daneshyari.com)