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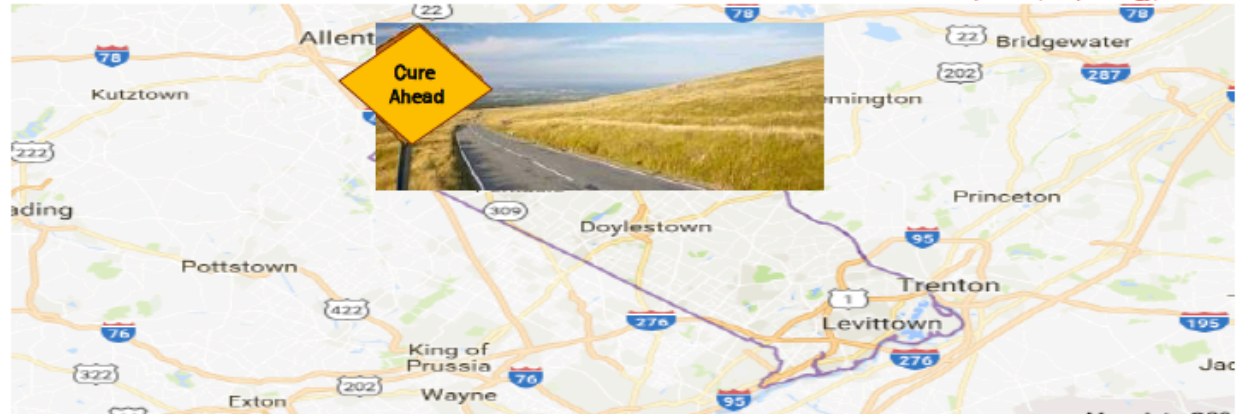
**FORUM**  
for Collaborative  
**RESEARCH**

## A Roadmap to a Cure\*

### Research Agenda for Hepatitis B

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*\*Conditional Acceptance, Hepatology, 2017*



# A Roadmap to a Cure Overview

Table 1

## Broad Areas of Research

### Virology

Improve understanding of HBV virology; emphasize research to define the molecular mechanisms responsible for cccDNA biogenesis, homeostasis and decay; expand research on viral and host functions influencing the viral life cycle

### Immunology

Improve understanding of adaptive and innate immunology of HBV acute, chronic, and resolved infections, and reactivation

### Viral Therapeutics

Develop HBV antiviral therapies against new viral and cellular targets; develop immunological approaches that selectively repress or eliminate HBV in infected cells

### Liver Cancer

Improve understanding of molecular pathways leading to liver cancer

### Liver Cancer Management

Exploit understanding of molecular pathways leading to liver cancer for discovery and development of new early detection and management of the cancer

### Combined

- Develop and standardize new research reagents and systems to study HBV and liver cancer for the purposes of drug discovery and development
- Establish new, and expand current, inter-institution and inter-laboratory collaborative networks for basic science discovery and validations
- Establish new, and expand upon current, clinical networks for therapeutic drug testing and validation, nationally and globally





# A Roadmap to a Cure\*

## Principles for Cure Research

- The surest way to cure HBV is to eliminate or permanently silence its cccDNA.
- The most significant impediment to achievement is our limited understanding of the fundamental molecular mechanisms that control cccDNA biogenesis, homeostasis and decay.
- Understanding these mysteries is now within reach, due to recent technological advances that enable definition of these mechanisms.



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**Viral Hepatitis**

## **A Research Agenda for Curing Chronic Hepatitis B Virus Infection**

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**Accepted manuscript online:**

6 September 2017 [Full publication history](#)

**DOI:**

10.1002/hep.29509 [View/save citation](#)

**Cited by (CrossRef):**



# Questions

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**Thank You!**