Shutting Down Hepatitis

1 - Viral Entry
2 - Transcription
3 - Viral Translation
4 - Virion Assembly

C. Lymphatic Tissue

B. Liver

A. Oral TLR7 Agonist

TLR-stimulated pDC

Mature pDC

Immature pDC

TLR7 Agonist-stimulated Product

Innate Immune System

Adaptive Immune System

IFN-α ISGs

CD80/CD86

IL-12

IFN-γ

MHC II

T cell receptor

Mature pDC

Infected Hepatocyte

Cell Death

Shuts Down Assembly of Virions

HCV/HBV

Cytotoxic T-cell Activation (CTL)

TH1

T cell

CD28

T cell

TH1

HCV/HBV

Shutting Down Hepatitis

Infected Hepatocyte

Shuts Down Assembly of Virions

HCV/HBV

CD80/CD86

IL-12

IFN-α ISGs

IFN-γ

MHC II

TLR7

Endosome

TLR-stimulated pDC

Immature pDC

Peripheral Blood

TLR7 Agonist

IL-12R

IFN-α

ISGs

Infected Hepatocyte

HCV/HBV

TLR7 Agonist-stimulated Product

Innate Immune System

Adaptive Immune System