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**PI3K/SHIP2/PTEN pathway in cell polarity and hepatitis C virus pathogenesis**

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### Abstract

Hepatitis C virus (HCV) infects hepatocytes, polarized cells in the liver. Chronic HCV infection often leads to steatosis, fibrosis, cirrhosis and hepatocellular carcinoma, and it has been identified as the leading cause of liver transplantation worldwide. The HCV replication cycle is dependent on lipid metabolism and particularly an accumulation of lipid droplets in host cells. Phosphoinositides (PIs) are minor phospholipids enriched in different membranes and their levels are tightly regulated by specific PI kinases and phosphatases. PIs are implicated in a vast array of cellular responses that are central to

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Of interest, SHIP2 expression rescues polarity, RhoA activation, and ... Thus identification of the cellular signaling pathways subverted by HCV to induce pathogenesis .... HCV core disrupts different cellular signaling pathways by interaction with .... plasma membrane, whereas PTEN antagonizes PI3K and produces PtdIns(4 ...

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