

S33-2 HCV infection system and anti-viral development

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HCV infection causes chronic liver diseases and is a worldwide health problem. We isolated full-length HCV cDNA of JFH-1 strain from a fulminant hepatitis patient. JFH-1 strain efficiently replicated in Huh7 cells and produced infectious virus particles. From the study using this HCV infection system, an association between core and NS5A on the surface of lipid droplets is important for infectious viral particle formation. Furthermore, CKB involvement into replication complex is important for efficient viral genome replication. These observations are important not only for our understandings for HCV life cycles but also the development of new anti-HCV strategy.