

© 2005 Master Publishing Group

Review Article [\[FullText\]](#) [\[PDF\]](#)

Overcoming Hurdles in Hepatitis C Virus Research: Efficient Production of Infectious Virus in Cell Culture

Erica Silberstein, Deborah R. Taylor

Laboratory of Hepatitis and Related Emerging Agents, Center for Biologics Evaluation and Research, US Food and Drug Administration

Corresponding author Deborah R. Taylor, 8800 Rockville Pike, HFM310, Bethesda, MD 20892. Tel: (301) 827-3660; Fax: (301) 480-7928; E-mail: Deborah.Taylor@FDA.HHS.gov.

Running title: HCV cell culture systems

hepatitis C virus; cell culture systems; replicons; particle assembly; viral spread and replication

Hepatitis C virus is a flavivirus that infects nearly 2% of the world population. There is no vaccine available and current therapy with interferon and ribavirin is expensive, not well tolerated and effective in only 60% of patients. HCV research has been hampered by the lack of a robust tissue culture system, but recent advances have made virus growth in culture possible. Here we review the current state-of-the-art and the molecular hurdles that have been met and those that still need to be overcome.

Master Publishing Group
328 N. Moore Avenue, Monterey Park, CA 91754, USA
Tel: 1-626-943-7985, Fax: 1-626-282-8693, Email editor@ijbs.org

[Feedback](#) | [About IJBS](#) | [Contact Us](#) | [Subscription](#)

Copyright © 2005 by the Master publishing Group