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Basic Study

Cell culture-adaptive mutations in hepatitis C virus promote viral production by enhancing viral replication and release

Wang Q *et al.* Adaptive mutations promote HCV production

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Although the replication levels of these RNAs within selected cells were high, the number of G418-resistant colonies was reproducibly low. In a search for the reason, we performed a detailed analysis of replicating HCV RNAs and identified several adaptive mutations enhancing the efficiency of colony formation by several ...

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Using a similar approach, we found that NS5B mutation F2994R, identified here from culture-adapted full-length TN viruses and a common NS3 helicase that the combination of 8m efficiently enhances the replication and viral production of HCV-1, resulting in an efficient full-length HCV-1 infectious culture system.