

عنوان مقاله:

Induction of autophagy in a prophylactic way able to enhance HCV virus load in Huh 7.5 cells

محل انتشار:

نوزدهمین همایش سالانه و دومین همایش بین المللی آسیب شناسی و طب آزمایشگاه (سال: 1396)

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خلاصه مقاله:

Background Autophagy provide an initial membranous platform for incoming HCV RNA translation. Once HCV replication is established, this platform will be needless for translation of HCV RNA progeny. So, the autophagy play key role in the replication and immune pathogenesis of HCV virus. The aim of this study was to study the effect of autophagy induction before virus replications on virus titer. Material and method The Huh7.5 cell was transfected with recombinant pcDNA-Becclin. After 12 hours post transfection, The HCV (JFH1) was inoculated. Next, to evaluate the viral load, viral RNA was extracted after 24 hours and virus titer was calculated using real time PCR. Result The result of current study show that the induction of autophagy before virus infection can increase virus yield up to 2.5 fold. Conclusion Manipulation of autophagy and study the interaction between autophagy and HCV can be promising approach to study and design new antiviral compound.

کلمات کلیدی:

HCV, Autophagy, Huh7.5 cell

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