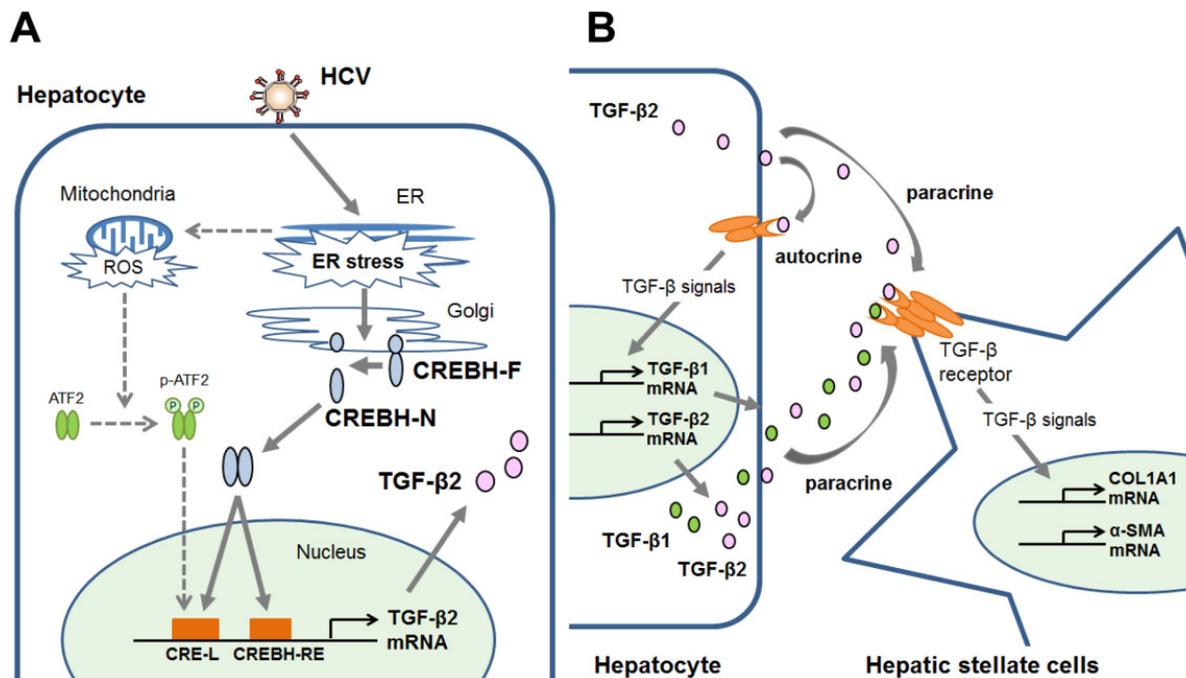


Critical role of CREBH-mediated induction of transforming growth factor β 2 by hepatitis C virus infection in fibrogenic responses in hepatic stellate cells.



Proposed model for induction of profibrogenic phenotypes triggered by HCV infection through CREBH activation. (A) In HCV-infected hepatocytes, ER stress induced by viral infection activates CREBH. Activated CREBH (CREBH-N) activates the TGF- β 2 promoter activity. ATF2 induced by ROS may be an additional mechanism for TGF- β 2 induction. (B) TGF- β 2 that is secreted from the infected cells contributes to cross-induction of TGF- β 2 and - β 1 in an autocrine manner through its own signaling pathway, finally increasing fibrogenic responses in HSC adjacent to the infected cells through paracrine TGF- β signaling.

Reference: Chida et al., *Hepatology*. 66(5):1430-1443, 2017

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