セミナーのお知らせ

Hsp70ネットワークから見るデングウイルスの生活環のアキレス腱を模索する

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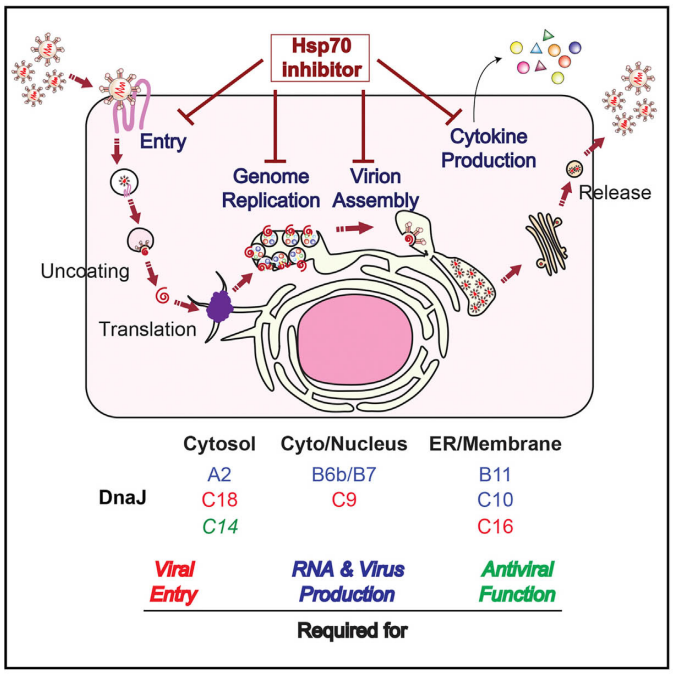
日時：12 月 17 日 (木) 16 時から

Article

Cell

Defining Hsp70 Subnetworks in Dengue Virus Replication Reveals Key Vulnerability in Flavivirus Infection

Graphical Abstract



Highlights

- The Hsp70 chaperone network mediates distinct steps of the dengue virus life cycle
- DENV cycle requires Hsp70 for viral entry, RNA replication, and virion production
- Hsp70 function at each step of DENV cycle is specified by different DNAJ proteins
- Drug inhibitor of Hsp70 potently blocks DENV infection in human and mosquito cells

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In Brief

Dengue virus infects almost 400 million people annually with no treatment or vaccine. Hsp70/DnaJ chaperone network components are found to be required at distinct steps of dengue viral life cycle, with compounds that allosterically modulate Hsp70 showing potent antiviral activity against dengue and other flavivirus pathogens.

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