

Tissue Science and Molecular Biology, Stem Cells & Separation Techniques

June 06-07, 2019 | London, UK

Biochemical characterization of crucial domain RNA dependent helicase of dengue virus (DENV)

Ayyub Patel

King Khalid University, Saudi Arabia

Dengue infection (DENV) is the reason for dengue fever. It is a mosquito-borne single positive-stranded RNA virus of the family Flaviviridae. Dengue infection has expanded drastically during the recent most 20 years and is getting to be one of the most exceedingly awful mosquito-borne human pathogens tropical nations need to manage. Current assessments demonstrate that upwards of 390 million diseases happen every year and it is progressively comprehended that various dengue contaminations are asymptomatic or sub-clinical. DEAD-box proteins are associated with an arrangement of metabolic procedures that regularly include RNAs. However, now and again additionally other nucleic acids are also included. DEAD-box RNA helicases assume critical jobs in RNA digestion, for example, grafting, ribosome biogenesis, RNA transport, debasement and interpretation. In the present study, we report that dengue virus contains RNA dependent ATPase activity and RNA unwinding activities.

Conclusion: The biochemical studies revealed in in this original copy are the important initial step to obtain new

insights into enzyme function and regulation. Overall, this investigation is the main direct proof to demonstrate the RNA helicase action of HABD protein has a place with DEAH family. The HABD protein demonstrates the ATPase activity in presence of RNA. Maximum energy provided in the presence of ATP and dATP. This energy helps to unwind the RNA duplex. This HABD protein may be useful for mitochondrial RNA splicing, translation and genome maintenance.

Speaker Biography

Ayyub Patel currently working as an assistant professor in the department of clinical biochemistry, King Khalid University. He does research in biochemistry, spectroscopy, e-learning and medical education. His current projects include: Promoting active learning in medical students; Zamzam water and acid reflux, anti-cancer activity of natural herbs and spices like qist albahri qist al Hindi, tumeric, gum arabic, moringa seeds etc.

e: ayyub@kku.edu.sa

 *Notes:*