

Guest Seminar

Multiple suppression of RNAi by the Viral Suppressor of RNA Silencing (VSR) of Nodavirus in Drosophila Cells

2:00-3:00 PM, Oct.12, 2012 @ Room 402, Institut Pasteur of Shanghai

Xi Zhou, PhD

Associate Professor,
State Key Lab of Virology
College of Life Sciences,
WuHan University



Host: Prof. Rong Chen

Abstract: RNA interference (RNAi) plays critical roles in cellular responses to viral infection in plants, insects and mammals. Although the endonuclease Dicers play critical roles in RNAi, the detailed mechanism by which VSRs antagonize Dicers remains unknown, and the interrelationship among diverse activities of VSRs evolved in RNA binding and interaction with protein components has not been investigated. Here, we show that from Wuhan Nodavirus (WhNV), B2 protein suppress Drosophila RNAi by the mechanism of interacting with Dicer-2 (Dcr-2) in addition to sequestering double-stranded RNA (dsRNA) and small interfering (siRNA).