

# SlgN Immunology Seminar



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## Recent results on the Structural Biology of RNA viruses

*Host*  
Dr Katja Fink  
Singapore Immunology  
Network, A\*Star

*Date*  
**Thursday,**  
**30 August 2012**

*Time*  
11am – 12pm

*Venue*  
SlgN Seminar Room,  
Immunos Building  
Level 4  
Biopolis

Several RNA viruses including Dengue virus or Rift Valley fever virus represent major health issues. In recent years, our research aimed at understanding at the molecular level how these viruses replicate their genomic RNA, using X-ray crystallography as a main tool. It is hoped that some of the structural information gleaned can be used to understand the basic biology of these viruses but also to assist the design of specific antiviral inhibitors.

The talk will first describe our current knowledge on replication enzymes from dengue virus that assemble to form a membrane-bound complex able to replicate viral genomic RNA. Recent results on the ribonucleoprotein from Rift-Valley Fever virus, a negative-strand RNA virus will also be presented.