

Department of Molecular and Cellular Biology
DISTINGUISHED SPEAKER SEMINAR SERIES

Dr. Michael G. Rossmann

Hanley Distinguished Professor of Biological Sciences
Purdue University



“Conformational changes in enveloped viruses during maturation and fusion”

**Wednesday, November 2, 2011
at 12:30 p.m. in THRN 1307**

Viruses undergo large conformational changes during their life cycle. Flavi and alpha viruses recognize their hosts and then enter an endocytotic vesicles where they fuse with the vesicle's membrane. That allows the genome to escape into the host cell's cytoplasm where the genome is replicated and acts as a messenger for synthesis of virally coded proteins. After various post translational modifications, the components assemble into a non-infectious immature virus. Eventually the virus is released by budding. During the final stages of virus release the particles mature into infectious virions, ready to be carried to the next host. The virus undergoes huge conformational changes during these processes that have been studied by various techniques including X-ray crystallography, cryo electron microscopy and cryo electron tomography.

Host: Dr. Matthew Kimber

Coffee, Tea & Timbits

EVERYONE IS WELCOME TO ATTEND!

“A great opportunity to hear leading researchers in the scientific community discuss their work”