NANYANG TECHNOLOGICAL UNIVERSITY

CBC SEMINAR ANNOUNCEMENT

Professor Todd Lowary
The University of Alberta

Protein Recognition of Bacterial Glycans Containing Furanose Residues

Glycans containing five-membered furanose rings are present in a range of microbial species. The interaction between furanose-containing glycans and proteins mediates a number of important biological events, but an understanding of these bind events remains poorly defined at the molecular level. Of particular interest to our group is the organism responsible for the disease tuberculosis, Mycobacterium tuberculosis, which produces an array of glycoconjugates containing furanose rings. The talk will focus on the synthetic and biophysical work done to probe the interaction between mycobacterial furanose glycans and two families of proteins: antibodies that recognize the cell wall antigen lipoarabinomannan and a glycosyltransferase that is involved in the biosynthesis of arabinogalactan, the largest structural component of the cell wall.

Date:	**25th October 2012 (Thursday)**
Time:	**2:00pm – 3:30pm**
Venue:	**NTU SPMS CBC Building Level 2, Conference Room**
Host:	**Assoc Professor Liu Xuewei**