

Subject: Do you like to win? How about free stuff?

Well, you can do both if you submit the winning chemistry club T-shirt design. Designs may be submitted in the chemistry library in the box near

the microwave - you can't miss the big black arrow showing you the way
Designs are due the Friday of finals week (December 15, 2006) at 4:30 PM.

Check out the attachments for a look at last year's winning designs and a totally awesome poster.

Your friendly FUNdraising chem. club coordinator,
Tricia

Nov 20 Liliya A. Yatsunyk Ph.D. Northwestern University,
Synthesis, Structure, and Magnetic Spectroscopies of
Non-Planar Hemes as Models of the Cytochromes *b* Heme
Centers" **4:00 SL 130**

Nov 21 Melinda Kangala, Graduate Student, Western
Washington University (Chemistry). Thesis Defense. **3:00 p.m.**
SL 212

Nov 28 Danielle Dube Ph.D. Stanford University
Chemical Tools to Target and Understand Glycosylation"
3:00 p.m. SL 130

Chemical tools to target and understand glycosylation

Danielle H. Dube

My research focuses on developing chemical tools to study a ubiquitous post-translational modification, glycosylation. Glycosylated proteins cover the surfaces of all of the cells in our bodies, yet in many cases we do not know the answers to basic questions about these biopolymers. Which glycans are attached to which proteins? How does glycosylation vary with physiology? And what is the functional significance of changes in glycosylation? In my seminar, I will tell you about two tools that I have developed that are capable of answering these basic questions. First, I will tell you about my graduate research in the Bertozzi lab, where I developed a method to chemically tag cell-surface glycans in living animals. Second, I will describe my current postdoctoral research in the Kohler lab, where I have developed a new two-hybrid assay that is capable of detecting protein-protein interactions of glycosylated and membrane-bound proteins in a high-throughput manner.