

**Department of
Chemical and Biological Engineering
15th Annual**

GRADUATE STUDENT RESEARCH SYMPOSIUM

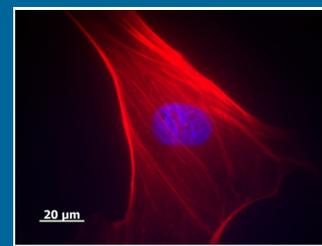
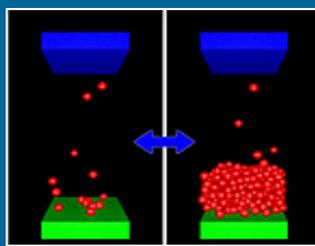
Thursday, October 18, 2012

2pm to 5:30pm

(Student Speakers 1pm)

The Center for the Arts

UB North Campus



John L. Magnani, Chief Science Officer and Vice President
GlycoMimetics, Inc.

From Functional Carbohydrates to Novel Glycomimetic Drugs

Every living cell is coated with carbohydrates that extend further out from the cell surface than the proteins in an area called the glycocalyx. These carbohydrates carry structural information that is used in recognition processes of cells with pathogens, receptors, enzymes, recognition molecules, and other cells. Bioactive conformations of these functional carbohydrates represent a relatively untapped source of novel drugs and innovative therapies. Progress in the field of Glycobiology presents many opportunities to transform current therapies and address unmet clinical needs with a novel technology of designing a new class of glycomimetic drugs based on the bioactive conformations of functional carbohydrates. This presentation will discuss the use of a novel glycomimetic antagonist to treat a life-threatening disease with historic unmet needs, and illustrate the validation of this approach by the current interest and investment of the Pharmaceutical industry.

For more information, please contact the Department of Chemical and Biological Engineering
www.cbe.buffalo.edu, (716) 645-2909