

## Summer Undergraduate Research Symposium

**Chemistry Room 412**

**Friday, August 10, 2007**

9:30 AM	Avinash Khanna	Design of Bio-available InhA Inhibitors with Activity against Drug-Resistant Strains of <i>Mycobacterium tuberculosis</i>
9:50	Beth Zucconi	Detection of Inhibition of Menaquinone-9 Biosynthesis in <i>Mycobacterium tuberculosis</i>
10:10	Megan Sikowitz	Enzymatic Synthesis of Steroid Substrates for <i>M. tuberculosis</i> Rv1106c using Cholesterol Oxidase
10:30	Rikki Enzor	Recombinant Generation of pBAD-NTL9 for production of NTL9-FSF <sub>CN</sub> for Protein Folding Studies
10:50	Marie Majkut	The Effect of Self-guided Langevin Dynamics and Temperature on the Folding of Tryptophan Zipper 2
11:10	Taamee Pak	H-NOX Protein Family as a Prokaryotic Nitric Oxide Sensor
11:30	Jessica Levin	Nanofiltration Membrane Based on Electrospun Nanofibrous Polyacrylonitrile Scaffolds and Crosslinked Polyethyleneglycol and Sodium Alginate Coating

### Lunch Break

1:30 PM	Rohit Repala	Design, Synthesis, and Mechanism Study of Taxane-based Tumor-Targeting Anticancer Agents
1:50	Benjamin Gowen	Synthesis of a Tumor-Targeting Drug Conjugate Using a Strategically Designed Self-Immolative Disulfide Linker
2:10	Nathaniel Webber	Experimental Study of the <sup>13</sup> C NMR of cis and trans-4,5-Diiodo-4-octene in Lewis Basic Solvents
2:30	Rebeka Guevara	Synthesis of a Macrocyclic Diacetylene System to Form Organic Nanotubes
2:50	Melanie Bunda	Synthesis of [Re(CCC <sub>6</sub> H <sub>4</sub> -4-CO <sub>2</sub> C <sub>6</sub> HF <sub>4</sub> )(CO) <sub>3</sub> (dmpz)] as a Pre-Building Block for 3-Dimensional Nano-Frameworks
3:00	Alex Chamessian	Computational Analysis of 1,3-Allylic Strain in $\alpha,\beta$ -Unsaturated Compounds and their $\beta,\gamma$ -Isomers

