

2011 NanoSTAR Undergraduate Summer Research Projects

- **Characterization of Opacity-Associated Membrane Protein-Host Receptor Binding Utilizing Reconstituted Synthetic Membranes Mimics**
Jacqueline Hodges, Chemistry; Linda Columbus, Chemistry
- **Fabrication and Doping of Graphene Membranes**
Rebecca M. Conti, Electrical & Computer Engineering; Petra Reinke, Materials Science and Engineering
- **Ultrasound-triggered Nanomedicine: Drug Delivery for Blood Clot Dissolution**
Brittany S. Johnson, Engineering Science & Physics; Alexander L. Klibanov, Biomedical Engineering
- **Creation and Adjustment of Nanoporous Gold**
Mariah J. Kalil, Mechanical Engineering; Giovanni Zangari, Materials Science & Engineering
- **Sterilization of O₂ Sensing Materials**
Alan Reyes, Chemistry; Cassandra Fraser, Chemistry
- **Computational Study of Ultra-low Energy Switching in Multiferroics**
Souheil Nahdri, Electrical & Computer Engineering; Avik Ghosh, Electrical & Computer Engineering
- **Oxygen Monitoring in Injured Tissue Using Nanofiber Scaffolds Spun from Boron Dye-PLA Blends**
Michael L. Tanes, Biomedical Engineering; Edward A. Botchwey, Biomedical Engineering
- **Catalytic Deoxygenation of Carboxylic Acids over Transition Metals**
Celeste Walker, Chemical Engineering; Bob Davis, Chemical Engineering