

## Areas of Research

### Dr. Gladys Alexandre

- Sensing and processing in the six-protein "brain" of bacteria

### Dr. Barry Bruce

- Modulation of Transit Peptide Recognition by the TOC Translocon by Phosphorylation

### Dr. Brad Binder

- Ethylene Perception: What a gas!

### Dr. Mariano Labrador

- Are chromatin insulators epigenetic landmarks of the genome architecture?

### Dr. Andreas Nebenführ

- Keeping nano-scale motors under control

### Dr. Jae Park

- Neurogenetic analysis of a neuropeptide role in alcohol-related behavior

### Dr. Cynthia Peterson

- Metallica: Keeping Protein Activities "in Chains"

### Dr. Dan Roberts

- Silencing RNA: Calcium Modulated Proteins in small RNA Signaling

### Dr. Engin Serpersu

- Biophysical studies to combat antibiotic resistance

### Dr. Elena Shpak

- Plant growth and development

### Dr. Sundar Venkatachalam

- DNA damage signaling at the chromatin level

### Dr. Albrecht von Arnim

- Biosensors for cellular signaling events based on real time in vivo luminescence imaging

# RESEARCH EXPERIENCE FOR UNDERGRADS (REU) JUNE 7-JULY 30, 2010

## Department of Biochemistry & Cellular & Molecular Biology

### Program Information

The aim of this program is to provide research experiences for undergraduate students majoring in the sciences with an introduction to cutting edge research in the broad area of "Sensing and Signaling". The team of REU investigators represents a multidisciplinary ensemble of Cell Biologists, Geneticists, Biochemists, and Biophysicists who are taking modern approaches to the analysis of how signals are perceived and transduced in myriad biological systems.

### Application Information

This opportunity is available to Freshman, Sophomore and Junior undergraduate science majors. REU Fellowships will be awarded to qualified students on a competitive basis. Each Fellowship will include a \$3,200 stipend as well as an allowance for cost of living, travel, and research supplies. To be considered, applicants should complete the online application form available at the link below, and should arrange to have **two letters of recommendation** and a **college transcript** sent to:

The University of Tennessee  
BCMB Department  
Dr. Dan Roberts, Professor  
M407 Walters Life Sciences  
Knoxville, TN 37996-0840

<http://web.bio.utk.edu/bcmb/reu/index.shtml>

Applications will be reviewed as they are received but should be completed and submitted by Monday, March 29, 2010