COURSE ANNOUNCEMENT
Spring 2010

BIOP/PHY 5060: Molecular Physiology
From Molecular Machines to Biological Information Processing

The course will introduce students to various aspects of molecular and cellular physiology and biophysics, including structural biology, quantitative studies of molecular interactions, biomolecular spectroscopy, proteomics, membrane biophysics, electron microscopy of large complexes, and advanced optical microscopy to study cellular processes and the inner workings of molecular machines such as contractile systems, ion conduction, cellular signal transduction, and synaptic transmission. The various techniques will be explained with specific examples from cellular and molecular physiology.

Instructors: Bushweller, Cafiso, Derewenda, Egelman, Faham, Kiessling, Liang, Mura, Nakamoto, Sherman, Tamm, Yeager, Zimmer

Time and Place
Tuesday and Thursday, 3 - 5 pm (4 credits), Jordan Hall, Room 4025 or Snyder Building
First lecture and organizational meeting: Thursday, January 21, 2010, 3 pm, Jordan Hall, Room 4025
Prerequisites
Biochemistry 503, Chemistry 743, or equivalent
Course Director
Lukas Tamm, Snyder Building, Room 555, Phone: 2-3578, Email: lkt2e@virginia.edu