

Department of Physics & Astronomy

Dr. Paresh Chandra Ray

Professor - Jackson State University

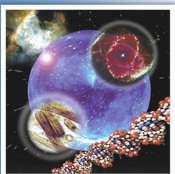
Friday, September 7, 2012

Time: 3:15 p.m. - 4:15 p.m.

BB 3.04.06

Multifunctional Gold Nanotechnology for Biology

The elegant multifunctional materials in biological systems inspire us to design analogous nanoscale structures with multifunctional capabilities like surface-sensitive sensing, separation, and selective therapy. Multifunctional material development is a critical multidisciplinary and interdisciplinary field of the 21st century for biomedical imaging and therapeutic action. In this talk we will discuss our recent report on the development of multifunctional nanomaterial for biological separation, sensing & therapy. I will present the possible mechanism and operating principle for the targeted imaging, separation, and photothermal destruction using multifunctional nanotechnology.



Department Contact Information

Dr. Marcelo Marucho • 210.458.7862 • Marcelo.Marucho@utsa.edu

Nakia Scott • 210.458.5698 • Nakia.Scott@utsa.edu

<http://physics.utsa.edu/>