Cell-mediated Targeted Drug Delivery Into Lungs

Event Type:
IBBR Seminar Series

Contact Person:
Silvia Muro

Event Info
Date:
Monday, April 28, 2014 - 11:00am to 12:00pm
Location:
2129

Details
Speaker/Presenter:
Arun Kumar
Speaker Title:
Assistant Professor
Speaker Affiliation:
College of Health Sciences in U. Delaware

Event Description:
Research interests are nanomedicine, nanotoxicity, tissue engineering and biomedical devices. Nanomedicine will have extraordinary and far-reaching implications for the medical profession, for the definition of disease, for the diagnosis and treatment of medical conditions including aging, and ultimately for the improvement and extension of natural human biological structure and function. Currently I am investigating nanoencapsulated natural compounds to treat cardiac disorders and a novel way to deliver nanoparticles coupled with drugs to the deep lung utilizing a biocompatible cell-based system and deliver therapy through the peripheral vasculature instead of a pulmonary route. Further, I am expanding this approach to develop cell-based therapeutic applications to diseases such as Alzheimer’s, Parkinson’s, brain trauma, cardiomyopathies, cancer, gene therapy and chronic lung disease.