

UCLA Chemistry &
Biochemistry
Procter & Gamble

presents

UCLA Student Organization for Cultural Diversity in Science
Lectureship Series

with

Professor Jin K. Montclare



Department of Chemical and Biomolecular Engineering
New York University Tandon School of Engineering

“Constructing Intelligent Protein Materials”

Abstract. Through centuries of evolution, nature has developed biopolymers capable of folding and assembling into discrete structures with a functional consequence. Inspired by this, our lab focuses on engineering “intelligent” protein materials with entirely new properties and function. In particular, our lab has fabricated protein-derived nanomaterials: helix-elastin block polymers and coiled-coil fibers. We investigate the fundamental self-assembly and molecular recognition capabilities of these systems. More importantly, we are able to harness these structure as well as others to interface with small molecule therapeutics, genes, cells and inorganic metals. Central to this work is the integration of stimuli-responsive domains through rational design.

Thursday, December 1, 2016

5:00 PM

Cram Conference Room – 3440 Molecular Sciences Bldg

For further information, contact David Gingrich at gingrich@chem.ucla.edu