

**JOHN P. MCGOVERN LECTURESHIP
IN BIOMEDICAL COMPUTING AND IMAGING**

**Cryo EM Imaging: Applications from Nanotechnology to
Gene Therapy**



Phoebe L. Stewart Ph.D.
Dept. of Mol. Physiology & Biophysics
Vanderbilt University Medical Center
Nashville, Tennessee

Cryo electron microscopy imaging is an emerging technique in structural biology that is applicable to large macromolecular complexes, such as human adenovirus vectors, virus/antibody complexes, and engineered nanoparticles. Recent advances in liquid helium cryo-microscopy, automation of data acquisition, and image processing on multi-processor computers, offer the potential of reaching near atomic resolution (3-5 Angstroms) by cryo-EM methods.

Dr. Stewart has been trained at Harvard and Penn and later became Director of the Cryo EM Laboratory of the Crump Institute for Molecular Imaging, UCLA. Now at Vanderbilt, she is Associate Professor in the Department of Molecular Physiology and Biophysics. She has received numerous awards including an NSF CAREER award in 1997. Dr. Stewart has been elected chair of the 2007 Gordon Research Conference on 3D Electron Microscopy.



DATE: Wednesday, October 6, 2004

TIME: 11:30AM

PLACE: UTHSCH – Medical School

Lecture Room MSB 2.135

6431 Fannin St., Houston, TX 77030

For information contact Dr. Yao Cong at 713.500.3981



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