NYBC HOSTS JENNIFER LIPPINCOTT-SCHWARTZ, Ph.D. AT THE 31st ANNUAL ALEXANDER S. WIENER LECTURE

New York Blood Center welcomed leading NIH researcher Jennifer Lippincott-Schwartz, Ph.D., as the guest speaker at the 31st annual Alexander S. Wiener Lecture on May 12, 2009. Dr. Lippincott-Schwartz presented her research on "Breakthroughs in Imaging Using Photoactivatable Fluorescent Protein Technology".

Dr. Mohandas Narla, Vice President and Director, Lindsley F. Kimball Research Institute introduced our distinguished speaker. In his opening remarks, he compared the importance of the work being done by Dr. Lippincott-Schwartz in cell biology to that of the work done by scientists in the field of radiology who developed the PET, MRI, and CAT scans.

Dr. Lippincott-Schwartz' research employs photoactivation localization microscopy, called PALM that enables visualization of molecule distributions at high density on live cell imaging. This technique provides analyses of the spatio-temporal behavior and dynamic interactions of molecules in cells.

l-r: Drs. James L. German, III, Cladd Stevens, Lippincott-Schwartz, Mohandas Narla

These approaches have helped to change the conventional 'static' view of protein distribution and function in cells to a more dynamic view. The technique integrates information on protein localization, concentration, diffusion and interactions that cannot be deduced from protein sequences and *in vitro* biochemical experiments alone.