



Trans-NIH Nanotechnology Task Force
and
NIH Roadmap Nanomedicine Initiative



Nanotechnology Research at NIH
April 8, 2009

Balcony B, Building 45, Natcher Conference Center
National Institutes of Health
Bethesda, Maryland

DRAFT AGENDA

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|-------------------------|--|
| 8:30 a.m. - 8:45 a.m. | Welcome and Introductions |
| 8:45 a.m. - 9:15 a.m. | Quantitative Characterization of Nanomedicine Delivery Systems by Electron Microscopy
Richard Leapman, Ph.D.
National Institute of Biomedical Imaging and Bioengineering (NIBIB), NIH |
| 9:15 a.m. - 9:45 a.m. | Multifunctional Lipid-based Nanocapsules and Triggered Chemotherapy
Robert Blumenthal, Ph.D.
National Cancer Institute (NCI), NIH |
| 9:45 a.m. - 10:15 a.m. | Bridging the Nano Gap: 3D Electron Microscopy of Cells and Viruses at Molecular Resolution
Sriram Subramaniam, Ph.D.
NCI, NIH |
| 10:15 a.m. - 10:30 a.m. | Break |
| 10:30 a.m. - 11:00 a.m. | Single-Molecule Studies on the Mechanism of Myosin V: A Molecular Motor
James Sellers, Ph.D.
National Heart, Lung, and Blood Institute (NHLBI), NIH |
| 11:00 a.m. - 11:30 a.m. | <i>Title pending</i>
Alan Koretsky, Ph.D.
National Institute of Neurological Disorders and Stroke (NINDS), NIH |
| 11:30 a.m. - 12 noon | Nanomechanics of Intrinsically Disordered Proteins: Coupling Elasticity and Signal Transduction
Kuan Wang, Ph.D.
National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), NIH |

Afternoon

***Lab Tours**

Single-Molecule/Super High-Resolution Light Microscopy

James Sellers and Clare Waterman, NHLBI

High-Resolution Microscopy

Richard Leapman, NIBIB, Sriram Subramaniam, NCI, and Alasdair Steven, NIAMS

Atomic Force Microscopy and Molecular Force Probes

Kuan Wang, NIAMS, and Albert Jin, NIBIB

Multimodal Imaging

Alan Koretsky, NINDS

*Registration for lab tours will open on April 1, 2009

(<http://www.capconcorp.com/nanoweek2009/>)