

The KAVLI NANOSCIENCE INSTITUTE [KNI] at Caltech

Opening Symposium

The Next Generation of Medical Diagnostics: Applications of Nanotechnology

Tuesday, March 4, 2008

9 am Ribbon Cutting – Steele Lab

10:30 am Symposium – Millikan Boardroom

Join us as we open our new state-of-the-art cleanroom facility and host a symposium showcasing cutting-edge medical diagnostic research from Caltech labs and beyond

Speakers include:

From Caltech:

DAVID BALTIMORE, *Millikan Professor of Biology; Nobel Laureate*
The New Age of Nanoscale Diagnostics

MICHAEL ROUKES, *Professor of Physics, Applied Physics, and Bioengineering;*
Co-Founder/Director, Alliance for Nanosystems VLSI
Next-Generation Biological Large-Scale-Integration

NATE LEWIS, *George L. Argyros Professor and Professor of Chemistry*
Breath-Based Diagnostic Detection of Lung Cancer

CHANGHUEI YANG, *Assistant Professor of Electrical Engineering and Bioengineering*
Optofluidic Microscopy: A Method for Building Microscopic Microscopes

SCOTT FRASER, *Anna L. Rosen Professor of Biology; Director, Caltech Biological Imaging Center*
Building Sensors with Single-Molecule Sensitivity

AXEL SCHERER, *Bernard A. Neches Professor of Electrical Engineering, Applied Physics, and Physics;*
Director, Kavli Nanoscience Institute, Caltech
Integrated Microfluidic Diagnostic Systems

JIM HEATH, *Elizabeth W. Gilloon Professor and Professor of Chemistry;*
Director, NanoSystems Biology Cancer Center
Technologies for Making *In Vitro* Diagnostics Cheap

From USC:

RICHARD J. COTE, M.D., *Professor of Pathology and Urology; Director, Biomedical Nanosciences Initiative; USC School of Medicine, Norris Comprehensive Cancer Center*
Patient Treatment: The Future of Diagnostic Tools

From Industry:

JOSEPH M. BEECHEM, Ph.D., *Vice President, Corporate Research Lab & CTO, Invitrogen Corp*
**Single-Molecule, Quantum-Dot-Nanocrystal-Based Medical Diagnostics:
Impact on the Future of Medicine**

Please use the online registration form at

<http://www.kni.caltech.edu/next-generation-2008/>

Space is limited. Registration is required for lunch.