



## THE 8TH ANNUAL NANOBIO TECHNOLOGY SYMPOSIUM

Monday, October 1, 2007  
G10 Biotechnology Building  
Cornell University, Ithaca, New York

### *Program Schedule*

- 8:00 - 8:45am Registration and Continental Breakfast
- 8:45 - 8:55am **Welcome and Introductions**  
Robert Buhrman, Vice Provost for Research  
Harold Craighead, Director, Nanobiotechnology Center
- 8:55 - 9:20am **The Nanomachines of Vesicle Tethering and Fusion**  
Manfred Lindau – Applied & Engineering Physics, Cornell University
- 9:20 - 9:45am **Watching Vesicle Fusion and Fission in Live Cells**  
Wolfhard Almers – Vollum Institute, Oregon Health Sciences University
- 9:45 – 10:10am **Physical Nanostructures for Biological Diagnostics**  
Watt W. Webb – Applied & Engineering Physics, Cornell University
- 10:10 - 10:35am **Whole Cell Biochips - Issues in Nano-bio Interfacing**  
Yosi Shacham-Diamand - Physical Electronics, Tel-Aviv University
- 10:35 - 10:55am Break
- 10:55 - 11:20am **Strategies for Enhancing the Sensitivity of Fluorescence-based Biochips**  
Brian MacCraith - Director of the Biomedical Diagnostics Institute, Dublin City University, Ireland
- 11:20 - 11:45am **Engineering Microphysiological Structure Within Bulk Tissues *in vitro***  
Abraham Stroock – Chemical & Biomolecular Engineering, Cornell University
- 11:45 - 12:10pm **Biomimetic Microenvironments to Study Cancer Cell Angiogenic Capability**  
Claudia Fischbach-Teschl – Biomedical Engineering, Cornell University



This Symposium is held in collaboration with the Kavli Institute at Cornell and the New York Academy of Sciences



*The NBTC is a multi-institution center led by Cornell University which includes the Wadsworth Center, Princeton University, Oregon Health & Science University, Clark Atlanta University, and Howard University. The NBTC is supported by the STC Program of the National Science Foundation under Agreement No. ECS-9876771. The NBTC is also supported by the New York State Office of Science, Technology and Academic Research (NYSTAR).*





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- 12:15 - 1:30pm      **Luncheon for Registered Symposium Attendees**  
Statler Ballroom, Statler Hotel
- 1:30 – 2:00pm      **Outlook for Interactions**  
Steve Kresovich, Vice Provost for Life Sciences  
**Positioning New York State in the Global Innovation Economy**  
Ed Reinfurt – Acting Executive Director, NYSTAR
- 2:00 – 2:25pm      **The Advion Story: From Analytical Services to Chip-Based Nano Electrospray Mass Spectrometry**  
Jack Henion – Co-Founder, Chief Scientific Officer and Chairman, Advion Biosciences
- 2:25 – 2:50pm      **Engineering DNA as a Nano-scale Material**  
Dan Luo – Biological & Environmental Engineering, Cornell University
- 2:50 – 3:15pm      **Synthesis and Characterization of Nanoporous Organic and Inorganic Membranes: Applications in Biological Separations**  
Kimberly L. Jones – Civil Engineering, Howard University
- 3:15 – 3:40pm      **Viruses as Mentors for Nano-scale Drug Delivery**  
Philip Leopold – Genetic Medicine, Weill Medical College
- 3:40 – 4:00pm      **Nanotechnology as an Enabler for Biofuels Research and Development**  
Larry Walker – Biological & Environmental Engineering, Cornell University
- 4:00 - 6:00pm      **Poster Session & Reception**  
Duffield Atrium



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