



## THE 9TH ANNUAL NANOBIO TECHNOLOGY SYMPOSIUM

Monday, October 27, 2008  
G10 Biotechnology Building  
Cornell University, Ithaca, New York

### *Program Schedule*

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|-----------------|---|
| 8:00 – 8:30am   | Registration and Continental Breakfast  |
| 8:30 – 8:40am   | <b>Welcome and Introductions</b><br>Harold Craighead, Director, Nanobiotechnology Center  |
| 8:40 – 9:05am   | <b>Molecular Motors: Natures Soft, Smart Nano-Machines</b><br>Yale Goldman – Professor of Physiology & Director, Pennsylvania Muscle Institute                      |
| 9:05 – 9:30am   | <b>C Dots: Fluorescent Core-Shell Silica Nanoparticles for Nanobiotechnology and Nanomedicine</b><br>Uli Wiesner – Material Science & Engineering, Cornell          |
| 9:30 – 9:55am   | <b>Geometric Patterning to Control Cell Growth, Capture, and Transport</b><br>Brian Kirby – Mechanical & Aerospace Engineering, Cornell                             |
| 9:55 – 10:20am  | <b>Detecting Pathogenic Organisms: From Lateral Flow Assays To Micro Total Analysis Systems</b><br>Antje Baeumner – Biological & Environmental Engineering, Cornell |
| 10:20 – 10:45am | <b>Biophysical Cues and Cell Behavior: The <b>Big</b> Impact of little things</b><br>Chris Murphy – Biomedical Engineering, University of Wisconsin-Madison         |
| 10:45 – 11:05am | Break   |
| 11:05 – 11:30am | <b>Cellular Force Generation During Cell Adhesion and Tissue Formation</b><br>Cynthia Reinhart-King – Biomedical Engineering, Cornell                               |
| 11:30 – 11:55am | <b>Analytical Platform for Immunosensor Applications</b><br>Héctor Abruña – Chemistry & Chemical Biology, Cornell   |

*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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- 11:55 - 12:20pm      **The Promise and Reality of Micro/Nano Life Science Products**  
David Patteson – Chief Executive Officer, Advion Biosciences
- 12:20 - 1:30pm      **Luncheon for Registered Symposium Attendees**  
Statler Ballroom, Statler Hotel
- 1:30 – 1:40pm      **Welcome to afternoon session**
- 1:40 – 2:15pm      **Nano-bio Research at AIBN**  
Peter Gray – Director, Australian Institute for Bioengineering and Nanotechnology (AIBN)
- 2:15 – 2:40pm      **New Strategies to Prevent or Treat Infections: Development of Synthetic Protocells to Neutralize Viruses**  
Anne Moscona – Professor of Pediatrics and Microbiology and Immunology, Weill Cornell
- 2:40 – 3:05pm      **Zero Mode Waveguides for Ultra-High Throughput Single Molecule Sequencing**  
Stephen Turner – Founder & Chief Technology Officer, Pacific Biosciences
- 3:05 – 3:30pm      **Improving Fluorescence Detection Sensitivity in Nano and Microchannel Bioanalytical Systems**  
Warren Zipfel – Biomedical Engineering, Cornell
- 3:30 – 3:55pm      **DNA as a Nanobiotech Material**  
Dan Luo – Biological & Environmental Engineering, Cornell
- 4:00 – 6:00pm      **Poster Session & Reception**  
Statler Ballroom, Statler Hotel

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