



National Human Genome Research Institute  
National Institutes of Health  
U.S. Department of Health and Human Services

**DRAFT**

## **NHGRI Advanced DNA Sequencing Technology Development Meeting**

March 10 - March 11, 2010

University of North Carolina  
Chapel Hill

### ***Wednesday, March 10***

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Registration open from 4:30-9:00 pm

Poster room available for set-up from 4:30-9:00 pm

**5:15 - 5:30 pm**

**Welcome/Program overview**

**5:30 - 6:45 pm**

**Session I**

*(20 min. + 5 min. discussion each)*

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Mike Ramsey<sup>§</sup>

*Nanoscale Fluidic Technologies for Rapidly Sequencing Single  
DNA Molecules*

XX

Steve Chou<sup>§</sup>

XX

M. Muthukumar<sup>§</sup>

*Modeling Macromolecular Transport through  
Protein Channels and Nanopores*

XX

**6:45 - 9:00 pm**

**Poster Reception (presenters A-M at your boards from 7:00-8:00)**

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<sup>§</sup> NHGRI DNA Sequencing Technology Grantees

## Thursday, March 11

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<b>7:00 - 8:00 am</b>	<b>Continental Breakfast and Registration</b>	
<b>8:15 - 9:05 am</b>	<b>Session II</b>	<i>(20 min. + 5 min. discussion each)</i>
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John Nelson <sup>§</sup>	<i>“Closed Complex” DNA Sequencing</i>	xx
Eun Sok Kim	<i>Real-Time, Label-Free Detection of DNA Polymerase Extension by MEMS Resonant Mass Sensor for DNA Sequencing</i>	xx
<b>9:05 - 9:55 am</b>	<b>Session III</b>	<i>(20 min. + 5 min. discussion each)</i>
Henk W.Ch. Postma	<i>Rapid Sequencing of Individual DNA Molecules in Graphene Nanogaps</i>	xx
Bo Zhang	<i>DNA Sequencing with a Graphene Nanopore</i>	xx
<b>9:55 - 10:30 am</b>	<b>Break</b>	
<b>10:35 - 12:15 pm</b>	<b>Session IV</b>	<i>(20 min. + 5 min. discussion each)</i>
Amit Meller <sup>§</sup>	<i>Enzyme-Free Optical Recognition of Individual Nucleobases for Single-Molecule DNA Sequencing with Nanopore Arrays</i>	xx
John Oliver <sup>§</sup>	<i>Hybridization Assisted Nanopore Sequencing</i>	xx
Hagan Bayley <sup>§</sup>	<i>Progress Towards Single-Molecule DNA Sequencing with Engineered Protein Nanopores</i>	xx
Jens Gundlach <sup>§</sup>	<i>Nanopore Sequencing with MspA</i>	xx
<b>12:15 - 2:15 pm</b>	<b>Lunch and Posters (presenters N-Z at your boards from 1:00-2:00)</b>	
<b>2:20 - 3:10 pm</b>	<b>Session IV</b>	<i>(20 min. + 5 min. discussion each)</i>
Zhimin Wang	<i>Exonuclease-Assisted Sequencing of Single-Molecule DNA</i>	xx
Rouvain Bension	<i>Construction of a Nano-Boombox for Reading the Sequence of a DNA Tape</i>	xx
<b>3:10 - 3:35 pm</b>	<b>Session V</b>	<i>(20 min. + 5 min. discussion each)</i>
John Provine <sup>§</sup>	<i>Sequencing ssDNA by Transmission Electron Microscopy</i>	xx
<b>3:35 - 4:15 pm</b>	<b>Break, Posters</b>	
<b>4:30 pm</b>	<b>Adjourn</b>	

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