

DRAFT AGENDA

12 April 2015

NHGRI Advanced DNA Sequencing Technology Development Meeting

May 14 – 15, 2015

San Diego, CA

Thursday, May 14

Registration open from 2:30-8:00 pm
Poster room available for set-up from 2:30-8:00 pm

3:00 pm	Welcome / Program Overview: Jeff Schloss	
3:15 pm	Session I:	
	Chair:	
		(25 min. + 5 min. discussion each)
Jeremy Huang	<i>Single Molecule FRET Sequencing on Consumable Microfluidic Devices</i>	#
Wayne Barnes	<i>In Vivo Encoded, Fluorescently-Labeled, DNA Polymerase as a Probe of DNA Sequence</i>	#
4:15 pm	Session II: Nanopore systems I	
	Chair: Meni Wanunu	
		(25 min. + 5 min. discussion each)
Aleksei Aksimentiev	<i>Plasmonic Nanopores for Trapping, Controlling, Displacement, and Sequencing of DNA</i>	#
Autumn Carlsen	<i>Enhanced Stability of 2-nm Solid-State Nanopores Fabricated by Controlled Breakdown</i>	#
Anna Schibel	<i>Towards Viable Nanopore Sequencing by Slowing DNA Translocation</i>	#
5:45 pm	Poster Reception	
	- this afternoon's presenters at boards 6:30-7:15	
	- poster-only presenters at boards 7:15-8:00	
8:30 pm	Adjourn for the day	

Friday, May 15

7:30 am **Continental breakfast and registration**

8:30 am **Session III:**
Chair:

(25 min. + 5 min. discussion each)

Anastassia Kanavarioti *Osmylated DNA, a Novel Concept for Sequencing DNA Using Nanopores* #

Bharath Takulapalli *High Speed DNA Sequencing by Chemical Recognition Using Novel Nanopore Technology* #

Jiwook Shim *Nanopore-Based Detection of Biomarker for Cancer Diagnostics* #

10:00 am **Break**

Sean Ling *The Nanopore DNA Sequencing Problem and the Second Law* #

Steve Soper *Polymer-Based Nanosensor Arrays Using Time-of-Flight Identification of Mononucleotides* #

11:00 am **Lunch and Posters**

- **this morning's presenters at boards 11:00-11:45**

- **this afternoon's presenters at boards 12:15-1:00**

1:00 pm **Session IV:**
Chair:

(25 min. + 5 min. discussion each)

Stevan Jovanovich *Sample-to-Answer NGS system INSERT TITLE* #

William Greenleaf *Hijacking Sequencers for Quantitative, Deep Mutational Profiling to Map the Biophysical and Functional Evolutionary Landscapes of RNA-Protein Interactions* #

TBN, IBM *Nano-Bump Array for Ultra-High Speed Sorting of Oligonucleotide DS-DNA* #

2:30 pm **Closing remarks**

3:00 pm **Adjourn**