ABRF 2009:
Optimization and Application of Existing and Emerging Biotechnologies
February 7-10, 2009 – Memphis, Tennessee

SATELLITE EDUCATIONAL WORKSHOP PROGRAM
(sw1) Next Generation DNA Sequencing
(current as of 12/8/08)

Saturday, February 7, 2009
8:00 am – 4:00 pm
Memphis Cook Convention Center

Massively Parallel Sequencers in the Core Facility: Applications and Computation
Workshop sponsor: **Illumina**
Session sponsors: **Roche Applied Science and Applied Biosystems**
Speaker sponsors: **Fluidigm, Geospiza, GenomeQuest, and DNAStar**

Organizer: Michael Zianni, Ohio State University *Co-organizers:* Caprice Rosato, Oregon State University, Michelle Detwiler, Roswell Park Cancer Institute, Charles Nicolet, University of California at Davis, and Peter Schweitzer, Cornell University

7:00 am - 12:00 pm	**REGISTRATION OPEN** - *Lobby*
7:00 - 8:00 am	**CONTINENTAL BREAKFAST** - *Ballroom Foyer*

MORNING SESSION: PLATFORMS AND APPLICATIONS
Peter Schweitzer, Cornell University (organizer)

8:00 - 8:20 am	**From Reads to Data Sets: Why Next Gen is not like Sanger Sequencing** Todd Smith, Geospiza
8:20 - 9:10 am	**Sequencing with the Roche 454 FLX** Alvaro Hernandez, University of Illinois at Urbana-Champaign
9:10 - 10:00 am	**Sequencing with the Applied Biosystems SOLiD**
10:00 - 10:30 am	**Refreshment Break** - *Ballroom Foyer*
10:30 - 11:20 am	**Sequencing with the Illumina Genetic Analyzer** James Hadfield, Cambridge Research Institute, United Kingdom
11:20 - 11:30 am	**Sponsor Presentation** Ilumina
11:30 am - 12:00 pm	**Panel Discussion: Any Questions You Still Might Have** Alvaro Hernandez, University of Illinois at Urbana-Champaign, James Hadfield, Cambridge Research Institute, Caprice Rosato, Oregon State University, Charles Nicolet, University of California at Davis, and Peter Schweitzer, Cornell University
12:00 - 1:00 pm	**LUNCH** - *Ballroom Foyer*

AFTERNOON SESSION: COMPUTATION AND ANALYSIS
Charles Nicolet, University of California at Davis (organizer)

1:00 – 1:20 pm	**Subnet Architecture for MPS: a Core Manager's Computational Awakening** Charles Nicolet, University of California at Davis
1:20 - 1:50 pm	**Building a Core Infrastructure for High-Throughput DNA Sequencing** Scott Givan, Oregon State University
1:50 - 2:30 pm	**Next Generation Sequencing and Analysis Core: Case Study in Genetic and Functional Biomarker Discovery** Faye Schilkey, National Center for Genome Resources
2:30 - 2:45 pm	**REFRESHMENT BREAK** - *Ballroom Foyer*
2:45 - 3:25 pm	**A Pipeline for SNP Discovery and Genotyping Based on Short Read Plant Libraries** Jer-Ming Chia, USDA-ARS / Cold Spring Harbor Laboratory
3:25 - 3:35 pm	**Sponsor Presentation** Roche Applied Science Applied Biosystems
3:35 - 4:00 pm	**Ask the Experts** Informal discussion between speakers, attendees and sponsors