1st Principal Investigators Meeting Agenda

1st Principal Investigators Meeting Innovative Molecular Analysis Technologies Program July 6-8, 2000 Westfields International Conference Center Chantilly, Virginia

Agenda

THURSDAY, JULY 6, 2000

5:00-6:30 p.m.	Registration
6:30 p.m.	Welcome Dr. Carol Dahl, National Cancer Institute
6:45 p.m.	Plenary Lecture: Future Directions in Cancer Research Dr. Richard Klausner, Director, National Cancer Institute
7:30 p.m.	Session 1: Highlights in DNA Analysis Session Chair: Dr. Deirdre Meldrum, University of Washington
7:40 p.m.	Multiparameter Analysis of Human Epithelial Tumors by Laser Scanning Cytometry
	Dr. Stanley Shackney, Allegheny-Singer Research Institute
8:05 p.m.	Optomechanical Detection of Biomolecular Recognition and Interactions
	Dr. Arun Majumdar, University of California, Berkeley
8:30 p.m.	High-Throughput Methylation Analysis using CpG Island Microarray
	Dr. Tim Hui-Ming Huang, University of Missouri
8:55 p.m.	Highly Selective Isolation of Unknown Mutations in Diverse DNA Fragments: New Potential for Multiplex Screening in Cancer
	Dr. G. Mike Makrigiorgos, Dana-Farber Cancer Institute
9:20 p.m.	High-Resolution Sequencing of Mixed Population of DNA Molecules
	Dr. Nadia Lifshitz, Biophotonics Corporation
9:45 p.m.	Detection of Genomic Alteration by Molecular Combing

Dr. Aaron Bensimon - Pasteur Institute

10:10 p.m. Adjourn

FRIDAY, JULY 7, 2000

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	Registration	
6:30-8:00 a.m.		
7:00 a.m.	Breakfast	
	Poster set up	
	Plenary Lecture: The Cancer Genome Anatomy Project	
8:00 a.m.	Dr. Robert Strausberg, National Cancer Institute	
8:30 a.m	Session 2: Emerging Technologies for RNA Analysis	
	Session Chair: Dr. Mark Chee, Illumina, Inc.	
8:40 a.m.	Messenger RNA Profiling by Single Molecule Counting	
	Dr. Paul Lizardi, Yale University	
9:10 a.m.	Randomly Self-Assembled Bead-Based Arrays for Highly Parallel Analysis of Nucleic Acids	
	Dr. Mark Chee, Illumina, Inc.	
9:40 a.m.	Fish & Chips	
	Dr. Robert Singer, Albert Einstein College of Medicine	
10:10 a.m.	Break	
10:45 a.m.	Session 3: Advances in Protein Expression Analysis	
	Session Chair: Dr. Richard Smith, Pacific Northwest National Laboratory	
10:50 a.m.	Proteomics Applied to the Search for Cancer Markers in Human Body Fluids	
	Dr. N. Leigh Anderson, Large Scale Proteomics Corporation	
11:15 a.m.	Quantitative Proteome Analysis: Methods and Applications	
	Dr. Reudi Aebersold, University of Washington	
11:40 a.m.	Microfabricated Fluidic Devices for Protein and Peptide Mapping	

	Dr. J. Michael Ramsey, Oak Ridge National Laboratory
12:05 p.m.	Lunch
1:30 p.m	Session 3: Advances in Protein Expression Analysis Session Chair: Dr. Richard Smith, Pacific Northwest National Laboratory
1:40 p.m.	The <i>C. elegans</i> ORFeome Cloning Project Dr. Marc Vidal, Dana-Farber Cancer Institute
2:05 p.m.	Sigma Receptors as a Biomarker of the Proliferative Status of Solid Tumors Dr. Robert Mach, Wake Forest University
2:30 p.m.	Plenary Lecture: The Director's Challenge
2.50 β.π.	Dr. Barbara Conley, National Cancer Institute
3:00 p.m.	Break
3:30 p.m.	Session 4: New Strategies for Protein Structure and Function Analysis
	Dr. Daniel Jay, Tufts University
3:40 p.m.	Structural Genomics Target Selection for Cancer-Related Proteins Across Complete Genomes
	Dr. Terry Gaasterland, The Rockefeller University
4:10 p.m.	The Electronic Detection of Interactions Between Ligands and Cell Surface Receptors
	Dr. Cynthia Bamdad, Minerva Biotechnologies Corporation
4:40 p.m.	Identification of Novel Breast Cancer Agents Using Functional Genomics
	Dr. Marek Liyanage, Aurora Biosciences
5:10 p.m.	A High Throughput Screen for Cancer Cell Invasiveness Using Chromophore-Assisted Laser Inactivation
	Dr. Daniel Jay, Tufts University
5:30-10:00 p.m.	Poster Session and Reception
7:00 p.m.	Special Session

NCI Resources: Tools to Speed Cancer Research

8:00 p.m. **Special Session**

Phased Innovation Awards: Review and Transitions

SATURDAY, JULY 8, 2000

7:00 a.m.	Breakfast
8:00 a.m.	Plenary Lecture: Molecular Epidemiology and the Genetic Annotation Initiative Dr. Kenneth Buetow, National Cancer Institute
8:30 a.m.	Highlights in DNA Analysis Dr. Deirdre Meldrum, University of Washington
8:50 a.m.	Emerging Technologies for RNA Analysis Dr. Mark Chee, Illumina, Inc.
9:10 a.m.	Advances in Protein and Functional Analysis Dr. Richard Smith, Pacific Northwest National Laboratory
9:30 a.m.	New Strategies for Protein Structure and Function Analysis Dr. Daniel Jay, Tufts University
9:50 a.m.	Discussion
10:15 a.m.	Closing Remarks
	Lunch