

4th Principal Investigators Meeting Agenda

4th Principal Investigators Meeting
Innovative Molecular Analysis Technologies Program
June 16-18, 2003
Hilton San Diego Resort
San Diego, California

Agenda

MONDAY - JUNE 16, 2003

- 7:30-8:15 a.m. Registration and Breakfast
- 8:15 a.m. **Welcome**
Ed Monachino, NCI
- 8:30 a.m. **Keynote 1: Trends and Perspectives in Cancer Research**
Gordon Mills, M.D., Ph.D., University of Texas M.D.
Anderson Cancer Center

Session 1—Generating the Knowledge Base for Cancer Research

- 9:30 a.m. **Endothelial Cell Molecular Alterations in Cancer**
Daniel Kenan, M.D., Ph.D., Duke University
- 10:00 a.m. BREAK
- 10:30 a.m. **Real-time *in vivo* Imaging of Gene Expression by SMaRT™ (Spliceosome Mediated RNA Trans-splicing)**
Gerard McGarrity, Ph.D., Intronn, Inc.
- 11:00 a.m. **Use of 2-D Gel/Mass Spectrometry and Oligonucleotide DNA Microarrays to Study Tumor Protein Production *in vivo* and *in vitro***
Alvin Beitz, Ph.D., University of Minnesota
- 11:30 a.m. **Translating a Transcriptome: High-throughput Analysis of mRNA Translation**
David Morris, Ph.D., University of Washington
- 12:00 noon LUNCH

Session 2—Creating Tools for Discovery

- 1:00 p.m. **Intelligent Mapping of Gene Expression Profiles**
Zuyi Wang, Ph.D., Catholic University of America
- 1:30 p.m. **Surface Plasmon Enhanced Microscopy; A New Technology with Optical Resolution of 10nm**
Dale Larson, M.S., Harvard Medical School

2:00 p.m.	SH2 profiling: classifying tumor cells on the basis of global tyrosine phosphorylation state Bruce Mayer, Ph.D., University of Connecticut
2:30 p.m.	Nucleic Acid-Based Biosensors as Tools for Cancer Research and Drug Discovery Martin Stanton, Ph.D., Archemix Corporation
3:00 p.m.	BREAK
NCI Funding Opportunities for IMAT Technology	
3:30 p.m.	DCB (basic research tools, mouse models, etc.) Dan Gallahan, Ph.D.
3:50 p.m.	DCP (prevention, early detection, EDRN) Sudhir Srivastava, Ph.D., M.P.H.
4:10 p.m.	DTP (drug discovery/development) Ron Dubois, Ph.D.
4:30 p.m.	CDP (diagnosis, prognosis) Tracy Lugo, Ph.D.
5:00-5:30 p.m.	Review and Transition Process Dan Gallahan, Ph.D.
5:00-9:00 p.m.	Poster Session and Interface with NCI programs

TUESDAY - JUNE 17, 2003

7:00-8:00 a.m.	Registration Breakfast
Session 1: IP Tech Transfer	
8:00 a.m.	University Technology Transfer; Perspectives, Policies and Practical Advice Irene Abrams, M.A., Massachusetts Institute of Technology
8:45 a.m.	Commercialization: Entrepreneurs in the New Landscape of Biotech Investment Allen Baker, C.Phil., Dawnbreaker
Session 2: Moving Technology in a Clinical Direction	
9:30 a.m.	The Long and Winding Road: From Research Diagnostics to Clinical Implementation Steve Piccoli, Ph.D., Fujirebio Diagnostics, Inc.
10:15 a.m.	<i>in vitro</i> Diagnostics—Overview Maria Chan, Ph.D., CDRH, FDA
11:00 a.m.	Panel Discussion: Speakers from Session 1 and 2
12:00 noon	LUNCH

1:00 p.m.	Keynote 2: How to Move Tech Forward Dr Steve Lee, Ph.D., Ohio State University
	Session 3: Moving New Tools into the Lab & Clinic
1:30 p.m.	Functional Proteomics to Identify Proteins in Cancer Cell Invasion Dan Jay, Ph.D., Tufts University
2:00 p.m.	Epigenomic Changes During Leukemia Cell Differentiation: Analysis of Histone Acetylation and Cytosine Methylation Using CpG Island Microarrays Bernard Futscher, Ph.D., University of Arizona
2:30 p.m.	Rapid Molecular Detection of PML/RAR Using Electrochemical Sensorarray Vincent Gau, Ph.D., Genefluidics, Inc.
3:00 p.m.	Vertical Coverage Arrays in Analyzing Transcription John Welsh, Ph.D., Sidney Kimmel Cancer Center
3:30 p.m.	BREAK
4:00 p.m.	Update on the SBIR program Jennifer Couch, Ph.D. and Anne Heath
5:00-9:00 p.m.	Poster Session

WEDNESDAY - JUNE 18, 2003

7:30-8:30 a.m.	Breakfast
8:30 a.m.	Keynote 3: Genomic Analyses of Clinical Breast Cancer Suzanne Fuqua, Ph.D., Baylor College of Medicine
	Session 4 —Exploring Human Cancer
9:30 a.m.	Methylated CpG Island Amplification for Methylation Profiling of Cancer Jean-Pierre Issa, M.D., University of Texas at M.D. Anderson Cancer Center
10:00 a.m.	Vascular Proteomics: Mapping Targets on Endothelia and Caveolae <i>in vivo</i> for Organ- and Tumor-Directed Delivery and Transcytosis Jan Schnitzer, M.D., Sidney Kimmel Cancer Center
10:30 a.m.	BREAK
11:00 a.m.	Assessment of Plasma DNA levels, Allelic Imbalance and CA-125 as Diagnostic Tests for Cancer

Ie-Ming Shih, M.D., Ph.D., Johns Hopkins University

11:30 a.m.

Gene Expression Profiling of Unknown Primary Cancers

Dr Branimir Sikic, M.D., Stanford University

12:00 noon

Adjourn