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. in vitro 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 in vivo 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