

# 3rd Principal Investigators Meeting Agenda

3rd Principal Investigators Meeting  
Innovative Molecular Analysis Technologies Programs  
July 8-10, 2002  
Westfields International Conference Center  
Chantilly, Virginia

## Agenda

### MONDAY, JULY 8, 2002

7:00 a.m. - 8:00 a.m.      **Registration**  
**Breakfast and Poster Setup**

8:00 a.m.              **Keynote: Challenges in Cancer Research**  
Dr. Ed Harlow, Harvard Medical School

#### Session 1-Generating the Knowledge Base for Cancer Research

9:00 a.m.              **Fundamental Clustering Approach To Genomic Analysis**  
Dr. Ray Cho, Ingenuity Systems, Inc.

9:30 a.m.              **Highly Parallel Single Cell Monitoring of Receptor-Triggered Membrane Translocation of a Calcium Sensing Protein Module**  
Dr. Mary Teruel, Stanford University

10:00 a.m.             **Break**

10:30 a.m.             **Vertical Arrays for Gene Expression Analysis**  
Dr. John Welsh, Sidney Kimmel Cancer Center

11:00 a.m.             **The C. elegans ORFeome: Version 1.0 and Beyond**  
Dr. David Hill, Dana-Farber Cancer Institute

11:30 a.m.             **Application of the Directional Change Assessment Algorithm on Microarray Data To Underscore Markers that Distinguish Ovarian, Breast and Prostate Cancer**  
Dr. Peter Tolias, Center for Applied Genomics, Public Health Research Institute

noon                    **Lunch**

1:00 p.m.              **Presentation: High Throughput Genome Technologies: Clinical and Industrial Applications**  
Dr. Mike Hogan, University of Arizona

#### Session 2-Creating Tools for Discovery

- 2:00 p.m.           **Protein Profiling Arrays**  
Dr. Mark Chee, Illumina, Inc
- 2:30 p.m.           **STowards Protein-Detecting Microarrays: Novel Methods for the Isolation of Synthetic, High Affinity Protein Ligands**  
Dr. Tom Kodadek, University of Texas Southwestern Medical Center
- 3:00 p.m.           **Break**
- 3:30 p.m.           **Blind Sources Separation for Partial Volume Correction in Microarray Data Analysis**  
Dr. Yue Wang, The Catholic University of America
- 4:00 p.m.           **Global Scanning of Single Nucleotide Variations**  
Dr. Sherman Weissman, Yale University
- 4:30 p.m.           **ROMA, a Method for All Seasons**  
Dr. Robert Lucito, Cold Springs Harbor Laboratory
- 5:00-9:00 p.m.     **Poster Session and Reception**

## **TUESDAY, JULY 9, 2002**

- 7:00-8:00 a.m.     **Registration**  
**Breakfast and Poster Setup**

### **Keynote Panel: Moving from Discovery To Application**

- 8:00 a.m.           **FDA-** Capt R.K. Leedham
- 8:30 a.m.           **PTO-** Dr. John Doll
- 9:00 a.m.           **Dawnbreaker-** Dr. Jenny Servo
- 9:30 a.m.           **Questions and Answers**
- 10:00 a.m.          **Break**

### **Session 3-Collaboration: The Key To Success**

- 10:30 a.m.          **NCI Staff Overview**
- 10:45 a.m.          Dr. Tim Huang, Ellis Fischel Cancer Center, University of Missouri-Columbia
- 11:15 a.m.          Dr. Richard Levenson, Cambridge Research and Instrumentation
- 11:45 a.m.          **Questions and Answers**
- Noon                 **Lunch**
- 1:00 p.m.           **Presentation: Success Story**

Dr. Bill Kaelin, Dana-Farber Cancer Institute

**Session 4-Moving New Tools into the Lab & Clinic**

- 2:00 p.m.      **Development of a Reliable, Routine Process To Isolate/Enrich Cancer Cells from Bone and Peripheral Blood Samples**  
Dr. Jeff Chalmers, Ohio State University
- 2:30 p.m.      **Automated Measurement of Ras and Rho Activation in Cancer**  
Dr. Gerry Boss, University of California, San Diego
- 3:00 p.m.      **Break**
- 3:30 p.m.      **Novel Proteome Methods for Global Quantitative Protein Profile Comparisons of Human Breast Cancer Metastasis**  
Dr. David Speicher, The Wistar Institute
- 4:00 p.m.      **Harnessing the SCF Ubiquitination Machinery for Targeted Proteolysis**  
Dr. Pengbo Zhou, Weill Medical College of Cornell University
- 4:30 p.m.      **High Throughput Proteomics and Genome Annotation Using CD-Tagging**  
Dr. Jonathan Jarvik, Carnegie Mellon University
- 5:00 p.m. - 9:00 p.m.      **POSTER SESSION AND RECEPTION**

**WEDNESDAY, JULY 10, 2002**

- 7:00 a.m. - 8:00 a.m.      **Breakfast**
- 8:00 a.m.      **Presentation: Success Stories-Moving Discoveries into Application**  
**Dr. Tim Triche, University of Southern California**

**Session 5-Exploring Human Cancer**

- 9:00 a.m.      **Automated Minimal Residual Disease Quantification**  
Dr. Deirdre Meldrum, University of Washington
- 9:30 a.m.      **Mutation Analysis for Tuberous Sclerosis: Technology Development and Molecular Epidemiology Studies**  
Dr. Sandra Dabora, Brigham and Women's Hospital
- 10:00 a.m.      **Break**
- 10:30 a.m.      **Novel Imaging Methods for Gene Discovery in Cancer**  
Dr. John Condeelis, Albert Einstein College of Medicine

- 11:00 a.m.            **Molecular Staging of Human Squamous Cell Skin Cancer**  
Dr. Jim Gale, University of New Mexico
- 11:30 a.m.            **Presentation: Success Stories-Moving Discoveries into Application**  
Dr. Kathy Klinger, Genzyme Corporation
- 12:30 p.m.            **Closing Remarks**