Eighth Principal Investigators Meeting Agenda

Eighth Principal Investigators Meeting
Innovative Molecular Analysis Technologies (IMAT) Program
July 24-25, 2007
Sofitel San Francisco Bay
Redwood City, CA

Agenda

Scientific Theme: Integrating Technology Platforms:
Separation, Detection, Analysis, and Data Management

Tuesday, July 24, 2007

7:00 a.m. - 7:00 p.m.	**Registration** *Ballroom Foyer*
7:00 a.m. - 8:00 a.m.	**Breakfast** *Ballroom Foyer*
7:00 a.m. - 8:00 p.m.	**Poster Setup** *Champagne*
8:00 a.m. - 8:15 a.m.	**Welcoming Remarks and Introduction of IMAT Program** *Bordeaux* Carolyn C. Compton, M.D., Ph.D. Office of Biorepositories and Biospecimen Research National Cancer Institute, NIH J. Randy Knowlton, Ph.D. Division of Cancer Biology National Cancer Institute, NIH
8:15 a.m. - 9:00 a.m.	**Keynote Speaker** ***Translation of Technical Development into the Clinical Laboratory*** Frederic M. Waldman, M.D., Ph.D. University of California, San Francisco
9:00 a.m. - 10:20 a.m.	**Scientific Session I: Gold Standards, Cool Samples, and Analysis—Part 1** Moderator: J. Randy Knowlton, Ph.D. National Cancer Institute, NIH

9:00 a.m. - 9:20 a.m.	***Evaluation of the Value of Frozen Tissue Section Used as the Gold Standard for Immunohistochemistry*** Shan-Rong Shi, M.D. University of Southern California
9:20 a.m. - 9:50 a.m.	***Tissue Print Micropeels for the Molecular Profiling of Cancer*** Sandra M. Gaston, Ph.D. Beth Israel Deaconess Medical Center/Harvard Medical School
9:50 a.m. - 10:20 a.m.	***Molecular Analysis of EGF Receptor (EGFR) Expression and Activation Using Nanostructured Surfaces and Liquid Crystal-Based Technologies*** Paul J. Bertics, Ph.D. University of Wisconsin-Madison
10:20 a.m. - 10:40 a.m.	**BREAK** *Ballroom Foyer*
10:40 a.m. - 11:40 a.m.	**Scientific Session I: Gold Standards, Cool Samples, and Analysis—Part 2** *Bordeaux* Moderator: J. Randy Knowlton, Ph.D. National Cancer Institute, NIH
10:40 a.m. - 11:10 a.m.	***Application of a Sensitive Double-Clad Optical Fiber for Two-Photon Fluorescence Measurement in Tissues*** James R. Baker, Jr., M.D. University of Michigan
11:10 a.m. - 11:40 a.m.	***Identification of Immune-Selected Breast Cancer Antigens*** Kevin Claffey, Ph.D. University of Connecticut Health Center
11:40 a.m. - 11:55 a.m.	**IMAT Review** Jeffrey E. DeClue, Ph.D. Division of Extramural Activities National Cancer Institute, NIH
11:55 a.m. - 12:15 p.m.	**NCI/NIH Research Resources for the IMAT Investigator** James W. Jacobson, Ph.D. National Cancer Institute, NIH
12:15 p.m. - 1:30 p.m.	**Lunch and Posters** *Ballroom Foyer/Champagne*
1:30 p.m. - 2:45 p.m.	**The Cancer Genome Atlas (TCGA)**

	Bordeaux Moderator: Carolyn C. Compton, M.D., Ph.D. National Cancer Institute, NIH
1:30 p.m. - 1:55 p.m.	***What Is TCGA, and What Are TCGA's Technology Needs?*** Daniela S. Gerhard, Ph.D. Director, Office of Cancer Genomics National Cancer Institute, NIH
1:55 p.m. - 2:45 p.m.	**TCGA-Related Technical Developments**
1:55 p.m. - 2:20 p.m.	***Exon-Specific Sequencing of Whole Genomic DNA*** Darren R. Link, Ph.D. RainDance Technologies, Inc.
2:20 p.m. - 2:45 p.m.	***Mapping the Transcriptional Regulatory Networks and Epigenome of Cancer Cells: A ChIP-chip Approach*** Bing Ren, Ph.D. Ludwig Institute for Cancer Research/University of California, San Diego
2:45 p.m. - 3:30 p.m.	**Keynote Presentation** ***Pathways-Based Analysis of Cancer Progression From High-Throughput Data*** Sylvia K. Plevritis, Ph.D. Stanford University
3:30 p.m. - 3:50 p.m.	**BREAK** *Ballroom Foyer*
3:50 p.m. - 5:50 p.m.	**Scientific Session II: FFPE Samples: Turning Lead Into Gold** *Bordeaux* Moderator: Lynn R. Sorbara, Ph.D. National Cancer Institute, NIH
3:50 p.m. - 4:20 p.m.	***Starting Material Degradation Test Is Tied to Success in Whole-Genome Amplification From Diverse Clinical Samples*** G. Mike Makrigiorgos, Ph.D. Dana Farber Cancer Institute/Harvard Medical School
4:20 p.m. - 4:50 p.m.	***Ultrasound Tissue Fixation and Processing Achieve Superior Morphology and Macromolecule Integrity*** Wei-Sing Chu, M.D. U.S. Department of Veterans Affairs
4:50 p.m. - 5:20 p.m.	***Automated, Whole-Slide-Based, Multiplexed Molecular***

	Marker Assessment in Formalin-Fixed, Paraffin-Embedded Tissues Richard M. Levenson, M.D. Cambridge Research & Instrumentation, Inc.
5:20 p.m. - 5:50 p.m.	***Expression Profiling in Paraffin-Embedded Tissues and Patient Cell Lines Reveals Predictive Markers in Intestinal Tumorigenesis and Colorectal Cancer Treatment*** Rossanna C. Pezo, M.S. Albert Einstein College of Medicine
6:00 p.m. - 8:00 p.m.	**Poster Session and Reception** *Champagne*
6:00 p.m. - 7:00 p.m.	***Odd poster numbers will stand by their posters for Q&A.***
7:00 p.m. - 8:00 p.m.	***Even poster numbers will stand by their posters for Q&A.***

Wednesday, July 25, 2007

7:00 a.m. - 8:00 a.m.	**Breakfast and Posters** *Ballroom Foyer/Champagne*
7:30 a.m. - 3:30 p.m.	**Registration** *Ballroom Foyer*
8:00 a.m. - 10:20 a.m.	**$$$Future Potential$$$** *Bordeaux* Moderator: Jennifer Couch, Ph.D. Division of Cancer Biology National Cancer Institute, NIH
8:00 a.m. - 8:40 a.m.	***Topic 1: Downstream Funding Opportunities***
8:00 a.m. - 8:15 a.m.	Jennifer Couch, Ph.D. Division of Cancer Biology National Cancer Institute, NIH
8:15 a.m. - 8:40 a.m.	Rohit K. Shukla, M.A. Commercialization Assistance Program Representative Larta Institute
8:40 a.m. - 10:20 a.m.	***Topic 2: Technology Transfer***
8:40 a.m. - 8:55 a.m.	Kevin Brand, J.D. Technology Transfer Center National Cancer Institute, NIH
8:55 a.m. - 9:10 a.m.	J.P. Kim, J.D., M.B.A., M.S.

	Division of Extramural Inventions and Technology National Cancer Institute, NIH
9:10 a.m. - 9:25 a.m.	Wendy D. Streitz, M.S.E.E. Policy, Analysis, and Campus Services University of California System
9:25 a.m. - 9:40 a.m.	Novel 3-D Tissue Imaging: A Multi-Dimensional Story of Technology Development Bevin P. Engelward, Sc.D. Massachusetts Institute of Technology
9:40 a.m. - 10:20 a.m.	Panel Discussion for Technology Transfer Extramural Community (Licensing Technologies, Intellectual Properties, and Patent MTAs and CDAs)
10:20 a.m. - 10:40 a.m.	**BREAK** *Ballroom Foyer*
10:40 a.m. - 11:25 a.m.	**Keynote Presentation** *Bordeaux* ***Genomic Data Management and Analysis: Good, Bad, and Ugly*** Timothy J. Triche, M.D., Ph.D. Children's Hospital Los Angeles
11:25 a.m. - 12:30 p.m.	**Lunch and Posters** *Ballroom Foyer/Champagne*
12:30 p.m. - 3:30 p.m.	**Scientific Session III: Circulating Cells: Catch Me If You Can** Moderator: James W. Jacobson, Ph.D. National Cancer Institute, NIH
12:30 p.m. - 1:00 p.m.	***Integrated Polymer-Based Microfluidic Systems for the Efficient Capture and Enumeration of Circulating Tumor Cells (CTCs) From Peripheral Blood*** Steven A. Soper, Ph.D. Louisiana State University
1:00 p.m. - 1:30 p.m.	***Chip-Based RNA Sensor Platform for the Detection of Circulating Tumor Cells*** Gary A. Clawson, M.D., Ph.D. The Pennsylvania State University
1:30 p.m. - 2:00 p.m.	***Activity-Based Probes for Profiling Histone Deacetylase Complexes in Proteomes*** Cleo M. Salisbury, Ph.D.

	The Scripps Research Institute
2:00 p.m. - 2:30 p.m.	***Developing Proteomic Technologies for Rapid, Real-Time, Label-Free Detection of Protein Interactions*** Niroshan Ramachandran, Ph.D. Harvard Medical School/Dana-Farber Cancer Institute
2:30 p.m. - 3:00 p.m.	***Clinical Application of Multispectral Imaging Flow Cytometry*** Hans Minderman, Ph.D. Roswell Park Cancer Institute
3:00 p.m. - 3:30 p.m.	***Phosphoprotein Profiling for Quantitative Analysis of Protein Phosphorylation Patterns*** Stephen Kron, M.D., Ph.D. The University of Chicago
3:30 p.m.	**Adjournment and Poster Removal**