

4th Annual Early Detection Research Network (EDRN) Scientific Workshop, Philadelphia, PA

Agenda

Monday, March 20, 2006

7:00-8:00 a.m. Registration (Continental Breakfast)

7:30-8:00 a.m. Welcome
Sudhir Srivastava, Ph.D., National Cancer Institute
David Sidransky, M.D., Johns Hopkins University School of Medicine

**8:00-11:10
a.m. Keynote Speakers**

8:00-8:35 a.m. Microsystems Approach to Developing Diagnostic Devices
David M. Dilts, M.D., M.B.A., Vanderbilt University

8:35-9:10 a.m. Cell Signaling by Receptor Tyrosine Kinases: from the Bench to the Bedside
Joseph Schlessinger, Ph.D., Yale University

9:10-9:45 a.m. MicroRNA Genes in Cancer
Carlo Croce, M.D., Ohio State University

**9:45-10:00
a.m. Break**

10:00-10:35 a.m. Somatic Mutations and the Early Detection of Colorectal Cancer Kenneth Kinzler, Ph.D., Johns Hopkins University

10:35-11:10 a.m. Global Systems Biology and Metabonomic Approaches to Understanding Molecular Disease Processes
Jeremy Nicholson, Ph.D., Imperial College of London

**11:10-11:45
a.m. Session I: Environmental Risk Factors, Genome and Early Detection**
Moderators: Steven Belinsky, Ph.D., Lovelace Respiratory Research Institute
William Rom, M.D., New York University

11:10-11:45 a.m. Patterns of Common Sequence Variation across Environmental Response Genes
Robert Weiss, Ph.D., University of Utah

**11:45 a.m.-
1:00 p.m. Lunch (On Your Own)**

- 1:00-1:30 p.m. Special Address: Frontiers in Cancer Biology
John Niederhuber, M.D., National Cancer Institute
- 1:30-3:45 p.m. Continuation of Session I: Environmental Risk Factors, Genome and Early Detection**
- 1:30-2:05 p.m. Identifying Genetic Determinants of Cancer Phenotypes
Matthew Freedman, M.D., Massachusetts General Hospital/Harvard Medical School
- 2:05-2:40 p.m. Gene-Environment Interactions in the Risk and Survival of Lung Cancer
David Christiani, M.D., Harvard School of Public Health
- 2:40-3:15 p.m. Potential Biomarkers in Asbestos Exposed Individuals
Harvey Pass, M.D., New York University
- 3:15-3:45 p.m. Panel Discussion
Panelists: Drs. William Rom, Steven Belinsky, Wendy Wang & Session Speakers
- 3:45-4:00 p.m. Break**
- 4:00-6:50 p.m. Session II: Epigenomics as Predictors of Cancer Risk**
Moderators: Paul Cairns, Ph.D., Fox Chase Cancer Center
Adi Gazdar, M.D., UT Southwestern Medical Center at Dallas
- 4:00-4:35 p.m. Cancer Epigenome-Implications for Cancer Biomarkers
Stephen Baylin, M.D., Johns Hopkins University
- 4:35-5:10 p.m. Alterations of the Cytosine Methylation Landscape during Neoplastic Transformation and Progression
John Grealley, M.D., Ph.D., Albert Einstein College of Medicine
- 5:10-5:45 p.m. Epigenetic Profiling of Normal Tissue and Prediction of Cancer Risk
Tim Huang, Ph.D., Ohio State University
- 5:45-6:20 p.m. Gene Promoter Hypermethylation as a Biomarker for Predicting Lung Cancer Risk
Steven Belinsky, Ph.D., Lovelace Respiratory Research Institute
- 6:20-6:50 p.m. Panel Discussion
Panelists: Drs. Paul Cairns, Adi Gazdar, Jacob Kagan & Session Speakers

Tuesday, March 21, 2006

7:00-8:00 a.m. Registration (Continental Breakfast)

7:30-11:15 a.m. Session III: Post-Translational Modifications and Its Impact on Tumor Detection

Moderators: Timothy Block, Ph.D., Drexel University College of Medicine
Michael (Tony) Hollingsworth, Ph.D., University of Nebraska Medical Center

7:30-8:05 a.m. Glycoproteomics for the Early Detection of Hepatocellular Carcinoma
Timothy Block, Ph.D., Drexel University College of Medicine

8:05-8:40 a.m. Glycomics Tools for Identification of Cancer Biomarkers
James Paulson, Ph.D., Scripps Research Institute

8:40-9:15 a.m. Circulating Carcinoma Mucins Are a Pathological "Tip of the Iceberg"
Ajit Varki, M.D., University of California, San Diego

9:15-9:30 a.m. Break

9:30-10:05 a.m. Protein Microarray Based Molecular Network Analysis and Phosphoproteomic Profiling of Clinical Samples for Patient Tailored Therapy and Stratification Emmanuel Petricoin, Ph.D., George Mason University

10:05-10:40 a.m. How Does the pRb Family Tell Genes When to Switch On and Off?
Antonio Giordano, M.D., Ph.D., Temple University

10:40-11:15 a.m. Panel Discussion *Panelists:* Drs. Timothy Block, Michael (Tony) Hollingsworth, Joseph Schlessinger, Karl Krueger & Session Speakers

11:15 a.m.-12:30 p.m. Lunch (On Your Own)

12:30-3:15 p.m. 12:30-3:15 p.m
Moderators: Stephen Meltzer, M.D., University of Maryland
Samir Hanash, M.D., Ph.D., Fred Hutchinson Cancer Research Center

12:30-1:05 p.m. Inflammation and Cancer, and Unique Micro RNA Profiles in Lung Cancer Diagnosis and Prognosis
Curtis Harris, M.D., National Cancer Institute

1:05-1:40 p.m. The Role of CXC Chemokines in Angiogenesis and Metastases of Cancer
Robert Strieter, M.D., University of California at Los Angeles

1:40-2:15 p.m. Harnessing the Immune Response for the Early Detection of Cancer
Samir Hanash, M.D., Ph.D., Fred Hutchinson Cancer Research Center

2:15-2:50 p.m. GI Biomarkers Ready for Prime Time
Stephen Meltzer, M.D., University of Maryland

2:50-3:15 p.m. Panel Discussion
Panelists: Drs. Samir Hanash, Stephen Meltzer, Padma Maruvada, & Session Speakers

3:15-3:30 p.m. Break

3:30-5:30 p.m. Poster Presentations

Wednesday, March 22, 2006

7:00-8:00 a.m. Continental Breakfast

7:30-9:45 a.m. Session V: Developing Informatics and Statistical Tools for Multiplex Profiling and Informatics Moderators: Patrice Watson, Ph.D., Creighton University
Ziding Feng, Ph.D., Fred Hutchinson Cancer Research Center (DMCC)

7:30-8:05 a.m. Integrating the Predictiveness of a Marker with Its Performance as a Classifier
Margaret Pepe, Ph.D., Fred Hutchinson Cancer Research Center

8:05-8:40 a.m. An "Integromic" Strategy for Discovery of Cancer Biomarkers
John Weinstein, M.D., Ph.D., National Cancer Institute

8:40-9:15 a.m. Application of the Time-Dependent ROC Curves for Prognostic Accuracy with Multiple Biomarkers
Yingye Zheng, Ph.D., Fred Hutchinson Cancer Research Center

9:15-9:45 a.m. Panel Discussion *Panelists:* Drs. Patrice Watson, Ziding Feng, Sudhir Srivastava,
Stephen Meltzer, & Session Speakers

9:45-10:00 a.m. Break

10:00 a.m.-12:15 p.m. Session VI: Development and Use of Emerging Technologies and Fields
Moderators: John Semmes, Ph.D., Eastern Virginia Medical School
Paul Wagner, Ph.D., National Cancer Institute

10:00-10:35 a.m. Recurrent Gene Fusions in Prostate Cancer
Arul Chinnaiyan, M.D., Ph.D., University of Michigan

10:35-11:10 a.m. Translating Biomarkers into Cancer Diagnostics and Therapeutics
James R. Baker, Jr., M.D., University of Michigan

11:10-11:45 a.m. Spectral Markers as Early Biomarkers of Colon Carcinogenesis
Hemant Roy, M.D., Evanston Northwestern Healthcare Research Institute

11:45 a.m.-12:15 p.m. Panel Discussion
Panelists: Drs. John Semmes, Paul Wagner & Session Speakers

12:15 p.m. Adjourn