

**7th Early Detection Research Network (EDRN) Scientific
Workshop
23rd EDRN Steering Committee Meeting
September 13 – 16, 2011
Bethesda North Marriott Hotel & Conference Center
Bethesda, Maryland**

Tuesday, September 13, 2011

- 7:00 – 8:00 a.m.** **Registration Check-In**
- 8:00 – 8:05 a.m. Welcome
Sudhir Srivastava, Ph.D., M.P.H., National Cancer
Institute
- 8:05 – 8:10 a.m. Welcome by Chair of the EDRN
Ian Thompson, M.D., University of Texas Health Science
Center, San Antonio
- 8:10 – 8:30 a.m. Basic Scientist's View of Biomarker Research
Ed Harlow, Ph.D., Special Advisor to NCI Director
- 8:30 – 10:00 p.m.** **SESSION 1: Systems Biology Basis of Biomarkers**
Moderators: Karin Rodland, Ph.D., Pacific Northwest
National Laboratory
Jacob Kagan, Ph.D., National Cancer Institute
- 8:30 – 9:00 a.m. Invited Presentation
Systems Biology Approach to Molecular Diagnostics
Gordon Mills, M.D., Ph.D., The University of Texas MD
Anderson Cancer Center
- 9:00 – 9:30 a.m. Integrated Genomics
Arul Chinnaiyan, M.D., Ph.D., University of Michigan
- 9:30 – 10:00 a.m. Title TBD
Adi Gazdar, M.B.B.S., University of Texas Southwestern
Medical Center
- 10:00 – 10:20 a.m.** **Break**
- 10:20 a.m. – 12:30 p.m.** **SESSION 2: Systematic Genomic Approach to
Cancer Biomarker Discovery**
Moderators: David Sidransky, M.D., Johns Hopkins
University School of Medicine
Jo Ann Rinaudo, Ph.D., National Cancer Institute
- 10:20 – 10:50 a.m. Invited Presentation
Driver Genes and Cancer Biomarkers
Kenneth Kinzler, Ph.D., Johns Hopkins University

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Tuesday, September 13, 2011 Continued

**SESSION 2: Systematic Genomic Approach to Cancer Biomarker Discovery
Continued**

- 10:50 – 11:15 a.m.* Deep Sequencing to Identify Early Detection Targets
Mark Rubin, M.D., Weill Cornell Medical College
- 11:15 – 11:40 a.m.* miRNA and noncoding RNA
Carlo Croce, M.D., Ohio State University Medical Center
- 11:40 a.m. – 12:05 p.m.* Pancreatic Cancer
Ann Killary, Ph.D., The University of Texas MD Anderson
Cancer Center
- 12:05 – 12:30 p.m.* Transcriptomics Profiles
Avrum Spira, M.D., Boston University
- 12:30 – 1:30 p.m.** **Lunch (On Your Own)**
- 12:45 – 1:30 p.m.** **Luncheon Debate: Judging the Returns on
Investment in Biomarker Research – Too Much or
Too Little**
Moderator: Paul Engstrom, M.D., Fox Chase Cancer
Center
Speaker: Mickey Urdea, Ph.D., Tethys Bioscience, Inc.
Panelists:
- David Sidransky, M.D., Johns Hopkins University
School of Medicine
 - Ian Thompson, M.D., University of Texas Health
Sciences Center, San Antonio
 - Joshua LaBaer, M.D., Ph.D., Arizona State University
- 1:30 – 2:30 p.m.** **POSTER SESSION 1**
- 2:30 – 3:00 p.m.** **Highlights of Poster Session 1**
Moderators: Brain Haab, Ph.D., Van Andel Research
Institute
Lynn Sorbara, Ph.D., National Cancer Institute
- 3:00 – 5:50 p.m.** **SESSION 3: Systematic Proteomic Approach to
Biomarker Discovery**
Moderators: Samir Hanash, M.D., Ph.D., Fred
Hutchinson Cancer Research Center
Karl Krueger, Ph.D., National Cancer Institute

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Tuesday, September 13, 2011 Continued

SESSION 3: Systematic Proteomic Approach to Biomarker Discovery Continued

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| 3:00 – 3:30 p.m. | <u>Autoantibodies</u>
Joshua LaBaer, M.D., Ph.D., Arizona State University |
| 3:30 – 4:00 p.m. | <u>Glycoproteomics</u>
Tony Hollingsworth, Ph.D., University of Nebraska
Medical Center |
| 4:00 – 4:20 p.m. | Break |
| 4:20 – 4:50 p.m. | <u>Proteomic Discovery using High Density Antibody Arrays</u>
Paul Lampe, Ph.D., Fred Hutchinson Cancer Research
Center |
| 4:50 – 5:20 p.m. | <u>Glycoproteomic and Bioinformatic Analyses of
Biomarkers for the Early Detection of Aggressive Prostate
Cancer</u>
Hui Zhang, Ph.D., Johns Hopkins University School of
Medicine |
| 5:20 – 5:50 p.m. | <u>Title TBD</u>
Dan Liebler, Ph.D., Vanderbilt University |
| 7:00 – 9:00 p.m. | Industrial Forum |

Wednesday, September 14, 2011

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| 7:00 – 8:00 a.m. | Registration Check-In |
| 8:00 – 11:45 a.m. | SESSION 4: Correlating Phenotypic Changes with
Omic Changes
<i>Moderators:</i> Jeffrey Marks, Ph.D., Duke University
Richard Mazurchuk, Ph.D., National Cancer Institute |
| 8:00 – 8:25 a.m. | <u>TCGA and Beyond</u>
Jeffery Marks, Ph.D., Duke University |
| 8:25 – 8:55 a.m. | Invited Presentation
<u>Whole Omics Profiling Reveals Medical and Complex
Molecular Phenotypes</u>
Michael Snyder, Ph.D., Stanford University |

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Wednesday, September 14, 2011 Continued

SESSION 4: Correlating Phenotypic Changes with Omic Changes Continued

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| 8:55 – 9:20 a.m. | <u>Spectral Biomarkers for Colon Carcinogenes</u>
Hemant Roy, M.D., NorthShore University Health System |
| 9:20 – 9:45 a.m. | <u>Genome-wide Studies of the Methylome of Colon Adenomas and Colon Adenocarcinomas</u>
William Grady, Ph.D., Fred Hutchinson Cancer Research Center |
| 9:45 – 10:05 a.m. | Break |
| 10:05 – 10:30 a.m. | <u>Strategies for Imaging Prostate Cancer</u>
Sanjiv Gambir, M.D., Ph.D., Stanford University |
| 10:30 – 10:55 a.m. | <u>Prostate</u>
Dan Mercola, M.D., Ph.D., University of California, Irvine |
| 10:55 – 11:20 a.m. | <u>Studies in Mesothelioma</u>
Harvey Pass, M.D., New York University |
| 11:20 – 11:45 a.m. | <u>Correlating phenotypic and Omic Changes in Lung Cancer and Pulmonary Pre-malignancy</u>
Steve Dubinett, M.D., University of California, Los Angeles |
| 11:45 a.m. – 1:00 p.m. | Lunch (On Your Own) |
| 12:00 – 1:00 p.m. | Luncheon Debate: The Road to Molecular Diagnostics: Are We There Yet?
<i>Moderator:</i> Dan Chan, Ph.D., Johns Hopkins University

<i>Speaker:</i> Craig Tuttle, Transgenomic, Inc., M.S., M.B.A.
<i>Panelists:</i> <ul style="list-style-type: none">• Laurie Locascio, Ph.D., National Institute of Standards and Technology• Sandy Stass, M.D., University of Maryland School of Medicine• EDRN Industrial Member |
| 1:00 – 2:00 p.m. | POSTER SESSION 2 |

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Wednesday, September 14, 2011 Continued

- 2:00 – 2:30 p.m.** **Highlights of Poster Session 2**
Moderator: Alvin Liu, Ph.D, University of Washington
Lynn Sorbara, Ph.D., National Cancer Institute
- 2:30 – 5:40 p.m.** **SESSION 5: From Bed to Bench Side – Biomarker
Discovery and Unmet Clinical Needs**
Moderators: Dean Brenner, M.D., University of Michigan
Paul Wagner, Ph.D., National Cancer Institute
- 2:30 – 2:45 p.m. Overview and Introductory Remarks
Dean Brenner, M.D., University of Michigan
- 2:45 – 3:15 p.m. Invited Presentation
Title TBD
Bruce Johnson, M.D., Dana Farber Cancer Institute
- 3:15 – 3:40 p.m. Prostate Cancer
Martin Sanda, M.D., Beth Israel Deaconess Medical
Center
- 3:40 – 4:00 p.m.** **Break**
- 4:00 – 4:25 p.m. Novel Biomarker Panels for Early Detection of Lung
Cancer
William Rom, M.D., New York University
- 4:25 – 4:50 p.m. Ovarian Cancer
Michael Birrer, M.D., Massachusetts General Hospital
- 4:50 – 5:15 p.m. Current Hurdles for Biomarker Development in
Pancreatic Cancer
Peter Allen, M.D., Memorial Sloan Kettering Cancer
Center
- 5:15 – 5:40 p.m. Breast Cancer
Paul Engstrom, M.D., Fox Chase Cancer Center

Thursday, September 15, 2011

- 7:00 – 8:00 a.m.** **Registration Check-In**

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Thursday, September 15, 2011 Continued

- 8:00 – 10:30 a.m.** **SESSION 6: Systems Analysis of Biomarker Data
from Across Molecular Approaches**
Moderators: Steven Skates, Ph.D., Massachusetts
General Hospital
Christos Patriotis, Ph.D., National Cancer Institute
- 8:00 – 8:10 a.m. Overview and Introductory Remarks
Steven Skates, Ph.D., Massachusetts General Hospital
- 8:10 – 8:40 a.m. Invited Presentation
TCGA with Respect to Informatics and Biomarkers
John Weinstein, MD, PhD, The University of Texas MD
Anderson Cancer Center
- 8:40 – 9:10 a.m. Lung Cancer in Never Smokers
Wan Lam, Ph.D., British Columbia Cancer Research
- 9:10 – 9:35 a.m. Recognizing PTM Differences Between Proteomes
David Tabb, Ph.D., Vanderbilt University
- 9:35 – 10:00 a.m. Title TBD
Marc Lenburg, Ph.D., Boston University
- 10:00 – 10:30 a.m. Challenges in Data Integration
Mark Thornquist, Ph.D., Fred Hutchinson Cancer
Research Center
- 10:30 – 10:50 a.m.** **Break**
- 10:50 – 12:30 p.m.** **SESSION 7: Highlights of Recent EDRN Research**
Moderator: David Sidransky, M.D., Johns Hopkins
University School of Medicine
Jacob Kagan, Ph.D., National Cancer Institute
- 10:50 – 11:15 a.m. DNA Repair Biomarker for Lung Cancer Risk
Zvi Livneh, Ph.D., Weizmann Institute
- 11:15 – 11:40 a.m. Canary Foundation
Prostate Active Surveillance Study
Ian Thompson, M.D., University of Texas Health Science
Center at San Antonio

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Thursday, September 15, 2011 Continued

SESSION 7: Highlights of Recent EDRN Research Continued

11:40 a.m. – 12:05 a.m.

Lung Cancer in Never Smokers

Samir Hanash, M.D., Ph.D., Fred Hutchinson Cancer
Research Center

12:05 – 12:30 p.m.

Ovarian Cancer Biomarkers

Nicole Urban, Sc.D., Fred Hutchinson Cancer Research
Center

12:30 p.m.

Adjourn Scientific Workshop

EDRN Steering Committee Meeting (Closed Sessions- By Invitation Only)

12:30 – 1:30 p.m.

Executive Committee Luncheon

1:30 – 5:30 p.m.

Collaborative Group Meetings

Lung and Other Upper Aerodigestive Cancers
Breast and Gynecological Cancers
Prostate and Other Urological Cancers
Gastrointestinal Cancers

Friday, September 16, 2011

7:00 – 8:00 a.m.

Registration Check-In

8:00 a.m. – 12:00 p.m.

**EDRN Steering Committee Meeting (Closed Session-
By Invitation Only)**

12:00 p.m.

Adjourn