

**6th Early Detection Research Network (EDRN) Scientific
Workshop
19th EDRN Steering Committee Meeting
August 31 – September 3, 2009
Doubletree Hotel Bethesda
Bethesda, Maryland**

Agenda

Monday, August 31, 2009

7:00 – 8:00 a.m.
(Foyer/Break Area)

Registration Check-In (Continental Breakfast)

8:00 – 8:10 a.m.
(Grand Ballroom)

Welcome

- Peter Greenwald, M.D., Dr.Ph., National Cancer Institute
- Sudhir Srivastava, Ph.D., M.P.H., National Cancer Institute

8:10 – 8:15 a.m.
(Grand Ballroom)

Introduction

David Sidransky, M.D., Johns Hopkins University

8:15 – 8:45 a.m.

NCI Director's Update

John Niederhuber, M.D., Director, National Cancer Institute

8:45 – 12:30 p.m.
(Grand Ballroom)

SESSION 1: Preinvasive Disease

Moderators:

- Dean Brenner, M.D., University of Michigan
- Jo Ann Rinaudo, Ph.D., National Cancer Institute

8:45 – 9:15 a.m.

Prostate Cancer DNA Methylation Biomarkers: Today and in the Future

William Nelson, M.D., Ph.D., Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins

9:15 – 9:45 a.m.

Earlier Detection of Cancer through Novel *In Vitro* and *In Vivo* Strategies

Sam Gambhir, M.D., Ph.D., Stanford University

9:45 – 10:00 a.m.

Break

10:00 – 10:30 a.m.

The Integrated Oncology Program of the Italian Ministry of Health for Analytical and Clinical Validation of New Biomarkers of Early Cancer Diagnosis

Angelo Paradiso, M.D., Italian National Cancer Institute

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Monday, August 31, 2009 – Continued

SESSION 1: Preinvasive Disease Continued

10:30 – 11:00 a.m. An In Vitro Carcinogen Model to Identify Early Genetic and Epigenetic Changes Driving Development of Preneoplastic Lung Cells and Transformation
Steven Belinsky, Ph.D., Lovelace Respiratory Research Institute

11:00 – 11:30 a.m. Precursors to Colorectal Adenocarcinoma
Stanley Hamilton, M.D., The University of Texas M.D. Anderson Cancer Center

11:30 – 12:00 p.m. Estimating the Likelihood of Cure from Lung Cancer
Sylvia Plevritis, Ph.D., Stanford University

12:00 – 12:30 p.m. Discussion
Discussion Leaders:

- Dean Brenner, M.D., University of Michigan
- Stephen Meltzer, M.D., Johns Hopkins University

12:30– 1:30 p.m. **Lunch (On Your Own)**

1:30 – 2:30 p.m. **POSTER SESSION 1**
(Harmony, Balance, Wisdom, Insight Rooms)

2:30 – 3: 00 p.m. **Highlights of Poster Session 1**
(Grand Ballroom) Oral Presentations of Three Selected Posters

3:00 – 5:50 p.m. **SESSION 2: Cancer Stem Cells**
(Grand Ballroom) *Moderators:*

- Sanford Stass, M.D., University of Maryland School of Medicine
- Jacob Kagan, Ph.D., National Cancer Institute

3:00 – 3:30 p.m. Interaction of Breast Cancer Cells with the Microenvironment
Max Wicha, M.D., University of Michigan

3:30 – 4:00 p.m. Circulating Tumor Cells as Prognostic and Predictive Markers in Colon Cancer
Neal Meropol, M.D., Case Western Reserve University

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Monday, August 31, 2009 – Continued

4:00 – 4:20 p.m.
(Imagination Break Area)

Break

SESSION 2: Cancer Stem Cells Continued

4:20 – 4:50 p.m.
(Grand Ballroom)

Implications of the Cancer Stem Cell Hypothesis in
Early Cancer Biology
Jeremy Rich, M.D., Cleveland Clinic

4:50 – 5:20 p.m.

The Hedgehog/Patched Pathway and Cancer Stem
Cells- From Diagnosis to Therapy
Michael Dean, Ph.D., National Cancer Institute at
Frederick

5:20 – 5:50 p.m.

Discussion
Discussion Leaders:

- Anna Lokshin, Ph.D., University of Pittsburgh
- Sanford Stass, M.D., University of Maryland
School of Medicine

Tuesday, September 1, 2009

7:00 – 8:00 a.m.
(Foyer/Break Area)

Registration Check-In (Continental Breakfast)

8:00 – 11:50 a.m.
(Grand Ballroom)

**SESSION 3: Tumor Biology and Tumor
Microenvironment**
Moderators:

- Michael Tainsky, Ph.D., Karmanos Cancer
Institute
- Lynn Sorbara, Ph.D., National Cancer Institute

8:00 – 8:30 a.m.

Impact of Early Detection on Targeted Therapy
Frank McCormick, Ph.D., FRS, University of
California San Francisco

8:30 – 9:00 a.m.

Oncogene Mutations, Mutant Specific Allelic
Imbalance and Uniparental Disomy Frequently Occur
Together in Tumor Cells
Adi Gazdar, M.D., University of Texas Southwestern

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Tuesday, September 1, 2009 Continued

SESSION 3: Tumor Biology and Tumor Microenvironment Continued

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| 9:00 – 9:30 a.m. | <u>Sonic Hedgehog Configures the Pancreatic Tumor Microenvironment</u>
Michael Hollingsworth, Ph.D., University of Nebraska Medical Center |
| 9:30 – 10:00 a.m. | <u>Secreted/extracellular Protein Biomarker Identification through Cell Type Transcriptome Analysis</u>
Alvin Liu, Ph.D., University of Washington |
| 10:00 – 10:20 a.m.
<i>(Imagination Break Area)</i> | Break |
| 10:20 – 10:50 a.m.
<i>(Grand Ballroom)</i> | <u>Translating the Cancer Genome</u>
Lynda Chin, M.D., Harvard Medical School |
| 10:50 – 11:20 a.m. | <u>The Tumor Microenvironment and Squamous Cell Cancers</u>
Anil Rustgi, M.D., University of Pennsylvania School of Medicine |
| 11:20 – 11:50 a.m. | <u>Discussion</u>
<i>Discussion Leaders:</i> <ul style="list-style-type: none">○ William Grizzle, M.D., Ph.D., University of Alabama at Birmingham○ Michael Tainsky, Ph.D., Karmanos Cancer Institute |
| 11:50 a.m. – 1:00 p.m. | Lunch (On Your Own) |
| 1:00 – 2:30 p.m.
<i>(Harmony, Balance
Wisdom, Insight Rooms)</i> | POSTER SESSION 2 |
| 2:30 – 3:00 p.m.
<i>(Grand Ballroom)</i> | Highlights of Poster Session 2
Oral Presentations of Three Selected Posters |

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Tuesday, September 1, 2009 Continued

3:00 – 5:50 p.m.
(Grand Ballroom)

SESSION 4: Field Cancerization

Moderators:

- Bogdan Czerniak, M.D., Ph.D., The University of Texas M.D. Anderson Cancer Center
- Karl Krueger, Ph.D., National Cancer Institute

3:00 – 3:30 p.m.

What Will It Take to Diagnose Early Pancreatic Neoplasia?

Ralph Hruban, M.D., Johns Hopkins University

3:30 – 4:00 p.m.

Mechanisms of Field Cancerization: Insights from a Human Cancer Stem Cell Syndrome

Lopa Mishra, M.D., Georgetown University

4:00 – 4:20 p.m.
(Imagination Break Area)

Break

4:20 – 4:50 p.m.

Central Airway Field Carcinogenesis and Possible Interventions to Address It

Wilbur Franklin, M.D., University of Colorado Health Science Center

4:50 – 5:20 p.m.

Field Carcinogenesis in the Colon: Implications for Risk Stratification

Hemant Roy, M.D., North Shore University Health System, University of Chicago Medical Center

5:20 – 5:50 p.m.

Discussion

Discussion Leaders:

- Bogdan Czerniak, M.D., Ph.D., The University of Texas M.D. Anderson Cancer Center
- William Rom, M.D., M.P.H., New York University School of Medicine

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Wednesday, September 2, 2009

7:00 – 8:00 a.m.
(Foyer/ Break Area)

Registration Check-In (Continental Breakfast)

8:00 – 8:15 a.m.
(Grand Ballroom)

Special Lecture on Cancer Control Problems in Turkey

Murat Tuncer, M.D., Cancer Control Department,
Turkish Ministry of Health

8:15 – 12:30 p.m.
(Grand Ballroom)

SESSION 5: Cancer Genome

Moderators:

- Arul Chinnaiyan, M.D., Ph.D., University of Michigan
- Christos Patriotis, Ph.D., National Cancer Institute

8:15 – 8:45 a.m.

Genomic Strategies for Personalized Cancer Therapy
Joseph Nevins, Ph.D., Duke University

8:45 – 9:15 a.m.

Genetic and Epigenetic Markers of Drug Resistance
David Sidransky, M.D, Johns Hopkins University

9:15 – 9:45 a.m.

The Next Generation of Gene Fusion in Cancer
Arul Chinnaiyan, M.D., Ph.D., University of Michigan

9:45 – 10:15 a.m.

Microarray Technology in Today's Genomics Environment and its Role in Cancer Research
Leonardo Brizuela, Ph.D., Agilent Technologies

10:15 – 10:30 a.m.
(Imagination Break Area)

Break

10:30 – 11:00 a.m.
(Grand Ballroom)

A Genomic Pathways Approach to Biomarker Discovery for the Early Detection and Risk Assessment of Pancreatic Cancer
Ann Killary, Ph.D., The University of Texas M.D. Anderson Cancer Center

11:00 – 11:30 a.m.

Bringing Cancer Genomics into the Clinic: Opportunities and Obstacles
Paul Meltzer, M.D., Ph.D., National Cancer Institute

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Wednesday, September 2, 2009 Continued

SESSION 5: Cancer Genome Continued

*11:30 – 12:00 p.m.
(Grand Ballroom)*

The Rapidly Evolving Answer to the Question “What is
Cancer?” and its Relevance to Early Detection
Larry Norton, M.D., Memorial Sloan-Kettering Cancer
Center

12:00 – 12:30 p.m.

Discussion

Discussion Leaders:

- Arul Chinnaiyan, M.D., Ph.D., University of Michigan
- Jeffrey Marks, Ph.D., Duke University Medical Center

12:30 p.m.

Scientific Workshop Adjourns

2:00 – 6:00 p.m.

EDRN Collaborative Group Meetings (Open to All Attendees)

(Harmony Room)

Breast/Gynecological Cancers

(Insight Room)

Gastrointestinal Cancers

(Ballroom A)

Lung/Upper Aerodigestive Cancers

(Balance Room)

Prostate/Urologic Cancers

2:00 – 6:00 p.m.

NCI Alliance of Glycobiologists Meeting (Alliance Members Only)

(Grand Ballroom C&D)

Thursday, September 3, 2009

7:30 – 8:30 a.m.

Registration Check-In (Continental Breakfast)

8:30 – 12:00 p.m.

19th EDRN Steering Committee Meeting (EDRN Members Only)

(Grand Ballroom A & B)

8:00 – 12:00 p.m.

NCI Alliance of Glycobiologists Meeting (Alliance Members Only)

(Grand Ballroom C&D)

1:30 – 5:00 p.m.

Mesothelioma Meeting

(Harmony Room)