

**8<sup>th</sup> EDRN Scientific Workshop**  
**Promises and Challenges in Cancer Screening, Early Detection &**  
**Biomarkers**  
**March 13-15, 2013**  
**Doubletree by Hilton Bethesda**  
**Bethesda, Maryland**

**Wednesday, March 13, 2013**

**8:00 a.m. – 12:05 p.m.**  
*Grand Ballroom ABC*

**Mini-workshop on Exosomes**

**1:00 – 2:00 p.m.**  
*2<sup>nd</sup> Level Foyer*

**Registration and Check-In for Scientific Workshop**

2:00 – 2:15 p.m.  
*Grand Ballroom*

Welcome

- Barnett Kramer, M.D., M.P.H., National Cancer Institute
- Sudhir Srivastava, Ph.D., M.P.H., National Cancer Institute

2:15 – 2:45 p.m.

Genomic Outliers in Cancer Detection and Treatment

Stan Gerson, M.D., Case Western Reserve University

2:45 – 3:00 p.m.

Q&A

**3:00 – 6:00 p.m.**  
*Grand Ballroom*

**SESSION 1: Novel/Unconventional Approaches to Biomarker Discovery**

*Moderators:*

- Subrata Sen, Ph.D., The University of Texas MD Anderson Cancer Center
- Nadarajen A. Vydelingum, Ph.D., FRSPH, National Cancer Institute

3:00 – 3:20 p.m.

Long Non-Coding RNAs (lncRNAs) as Biomarkers of Cancer

Arul Chinnaiyan M.D., Ph.D., University of Michigan

3:20 – 3:30 p.m.

Q&A

3:30 – 3:50 p.m.

Biomarker Discovery for Molecular Imaging Applications

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

3:50 – 4:00 p.m.

Q&A

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**Wednesday, March 13, 2013 Continued**

**SESSION 1: Novel/Unconventional Approaches to Biomarker Discovery Continued**

4:00 – 4:20 p.m. <i>Grand Ballroom</i>	<u>Nanoarchitectural Markers of Early Carcinogenesis</u> Vadim Backman, Ph.D., Northwestern University
4:20 – 4:30 p.m.	Q&A
<b>4:30 – 5:00 p.m.</b>	<b>Break</b>
5:00 – 5:20 p.m.	<u>Glycoproteomic Discovery of Cancer Biomarkers</u> Karen Abbott, Ph.D., University of Georgia
5:20 – 5:30 p.m.	Q&A
5:30 – 5:50 p.m.	<u>Blood-based Detection of Lung Cancer with Backscattering Interferometry: an Ultra-sensitive, Low-volume, Free-solution, Label-free Sensor</u> Darryl Bornhop, Ph.D., Vanderbilt
5:50 – 6:00 p.m.	Q&A

**Thursday, March 14, 2013**

**7:00 – 8:00 a.m.**                      **Registration and Check-In**  
*2<sup>nd</sup> Level Foyer*

**8:00 – 9:30 a.m.**  
***Grand Ballroom A&B***

***Grand Ballroom C&D***

**CONCURRENT SESSIONS**

- **SESSION 2: Trials and Tribulations of Ovarian Cancer Screening**
- **SESSION 3: Trials and Tribulations of Prostate Cancer Screening**

**SESSION 2: Trials and Tribulations of Ovarian Cancer Screening**

*Moderators:*

- Michael Birrer, M.D., Ph.D., Massachusetts General Hospital
- Christos Patriotis, Ph.D., National Cancer Institute

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**Thursday, March 14, 2013 Continued**

**SESSION 2: Trials and Tribulations of Ovarian Cancer Screening Continued**

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| 8:00 – 8:20 a.m.<br><i>Grand Ballroom A&amp;B</i> | <u>Early Detection of Ovarian Cancer: Old Trials and New Biology</u><br>Michael Birrer, M.D., Ph.D., Massachusetts General Hospital        |
| 8:20 – 8:40 a.m.                                  | <u>Designing a Discovery Pipeline for Early Detection Ovarian Cancer Biomarkers</u><br>Steve Skates, Ph.D., Massachusetts General Hospital |
| 8:40 – 9:00 a.m.                                  | <u>Overcoming the Challenges in Ovarian Cancer Screening</u><br>Nicole Urban, Sc.D., Fred Hutchinson Cancer Research Center                |
| 9:00 – 9:30 a.m.                                  | <u>Panel Discussion</u>  |
| <b>9:30 – 10:00 a.m.</b>                          | <b>Break</b>   |

**SESSION 3: Trials and Tribulations of Prostate Cancer Screening**

*Moderators:*

- Martin Sanda, M.D., Beth Israel Deaconess Medical Center
- Jacob Kagan, M.Sc., Ph.D., National Cancer Institute

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|---|---|
| 8:00 – 8:20 a.m.<br><i>Grand Ballroom C&amp;D</i> | <u>PSA: Current Status and Controversy</u><br>James Brooks, M.D., Stanford University                           |
| 8:20 – 8:40 a.m.                                  | <u>Lessons from the Past</u><br>Ian Thompson, M.D., The University of Texas Health Sciences Center, San Antonio |
| 8:40 – 9:00 a.m.                                  | <u>A Vision of the Future</u><br>Mark Rubin, M.D., Weill Cornell Medical College                                |

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**Thursday, March 14, 2013 Continued**

**SESSION 3: Trials and Tribulations of Prostate Cancer Screening Continued**

9:00 – 9:30 a.m.                      Panel Discussion  
*Grand Ballroom C&D*

**9:30 – 10:00 a.m.                      Break**

**10:00 a.m. – 12:00 p.m.              CONCURRENT SESSIONS**

*Grand Ballroom A&B*                      • **SESSION 4: Trials and Tribulations of Lung Cancer Screening**

*Grand Ballroom C&D*                      • **SESSION 5: Genomics and Sequencing**

**Session 4: Trials and Tribulations of Lung Cancer Screening**

*Moderators:*

- Pierre Massion, M.D., Vanderbilt University
- Karl Krueger, Ph.D., National Cancer Institute

10:00 – 10:20 a.m.                      The Clinical Context of Early Detection and Early Diagnosis of Lung Cancer  
Steven Dubinett, M.D., University of California, Los Angeles

10:20 – 10:40 a.m.                      The Most Recent and Promising EDRN Related Studies for Early Detection/Diagnosis of Lung Cancer  
Harvey Pass, M.D., New York University

10:40 – 11:00 a.m.                      Potholes in the Road to an Early Detection of Lung Cancer Biomarker  
William Rom, M.D., New York University

11:00 – 11:20 a.m.                      Reproducibility of Volumetric Analysis of Lung Nodules  
Gary Smith, M.D., Vanderbilt University

11:20 a.m. – 12:00 p.m.              Panel Discussion

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**Thursday, March 14, 2013 Continued**

**Session 5: Genomics and Sequencing**

*Moderators:*

- Ann Killary, Ph.D., The University of Texas MD Anderson Cancer Center
- Jo Ann Rinaudo, Ph.D., National Cancer Institute

10:00 – 10:20 a.m.  
Grand Ballroom C&D

Next Generation Sequencing and Early Detection  
Ken Kinzler, Ph.D., Johns Hopkins University

10:20 – 10:30 a.m.

Q&A

10:30 – 10:50 a.m.

SEQing Transcriptomic Biomarkers in the Airway for Early Detection of Lung Cancer  
Avrum Spira, M.D., M.Sc., Boston University

10:50 – 11:00 a.m.

Q&A

11:00 – 11:20 a.m.

A Prognostic miRNA/mRNA Signature from the Integrated Analysis of Patients with Invasive Breast Cancer  
Carlo Croce, M.D., The Ohio State University

11:20 – 11:30 a.m.

Q&A

11:30 – 11:50 a.m.

Biomarkers for Clinical Management of GI Neoplasia  
Sanford Markowitz, M.D., Ph.D., Case Western Reserve University

11:50 a.m. – 12:00 p.m.

Q&A

**12:00 – 1:00 p.m.**

**Lunch**

**1:00 – 2:30 p.m.**

**POSTER SESSION (See List of Posters for Room Assignments)**

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**Thursday, March 14, 2013 Continued**

**2:30 – 3:30 p.m.**  
*Grand Ballroom*

**Highlights of Poster Session**  
**Oral Presentations of Selected Posters**

*Moderators:*

- David Camp, Ph.D., Pacific Northwest National Laboratory
- Lynn Sorbara, Ph.D., National Cancer Institute

**3:30 – 4:00 p.m.**

**Break**

**4:00 – 6:00 p.m.**

**EDRN Collaborative Group Meetings (*by Invitation Only*)**

*Grand Ballroom B*  
*Grand Ballroom A*  
*Grand Ballroom D*  
*Grand Ballroom C*

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

**Friday, March 15, 2013**

**7:00 – 8:00 a.m.**  
*2<sup>nd</sup> Level Foyer*

**Registration and Check-In**

**8:00 – 10:00 a.m.**  
*Grand Ballroom*

**SESSION 6: Infectious Agents and Microbiome**

*Moderators:*

- Karen Anderson, M.D., Ph.D., Arizona State University
- Jacob Kagan, M.Sc., Ph.D., National Cancer Institute

*8:00 – 8:20 a.m.*

Microbiota, Inflammation, and Cancer Response to Therapy

Giorgio Trinchieri, M.D., National Cancer Institute

*8:20 – 8:30 a.m.*

Q&A

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**Friday, March 15, 2013 Continued**

**SESSION 6: Infectious Agents and Microbiome Continued**

8:30 – 8:50 a.m. <i>Grand Ballroom</i>	<u>Impact of Microbiota on Retrovirus MMTV Transmission</u> Tatyana V. Golovkina, Ph.D., University of Chicago
8:50- 9:00 a.m.	Q&A
9:00 – 9:20 a.m.	<u>Biomarkers of HPV-Associated Cancers</u> Karen Anderson, M.D., Ph.D., Arizona State University
9:20 – 9:30 a.m.	Q&A
9:30 – 9:50 a.m.	<u>EBV Associated Cancers</u> David Thorley-Lawson, Ph.D., Tufts University
9:50 – 10:00 a.m.	Q&A
<b>10:00 – 10:30 a.m.</b>	<b>Break</b>
<b>10:30 – 12:20 p.m.</b>	<b>SESSION 7: Challenges and Pitfalls in Early Detection</b> <i>Moderators:</i> <ul style="list-style-type: none"><li>○ Eleftherios Diamandis, Ph.D., Mount Sinai Hospital</li><li>○ Richard Mazurchuk, Ph.D., National Cancer Institute</li></ul>
10:30 – 10:50 a.m. <i>Grand Ballroom</i>	<u>Why Is It So Difficult to Discover a Good Cancer Biomarker?</u> Vathany Kulasingam, Ph.D., Mount Sinai Hospital
10:50 – 11:10 a.m.	<u>Biomarkers for Early Diagnosis, through a Pancreas Cancer Lens</u> Scott Kern, M.D., Johns Hopkins University

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**Friday, March 15, 2013 Continued**

**SESSION 7: Challenges and Pitfalls in Early Detection Continued**

*11:10 – 11:30 a.m.*  
*Grand Ballroom*

Challenges in the Translation of Biomarkers into  
Clinical Diagnostics

Daniel Chan, Ph.D., Johns Hopkins University  
School of Medicine

*11:30 – 11:50 a.m.*

Autoantibodies in Basal-like Breast Cancer

Joshua LaBaer, M.D., Ph.D., Arizona State  
University

*11:50 a.m. – 12:20 p.m.*

Panel Discussion

**12:20 – 12:30 p.m.**

**Closing Remarks**

- Ian Thompson, M.D., University of Texas Health Sciences Center, San Antonio, Chair of the EDRN
- Sudhir Srivastava, Ph.D., M.P.H., National Cancer Institute