

Second Annual EDRN Scientific Workshop

Agenda

Sunday, October 14th

Large Cohort Study Presentations

- 4:00-4:15 Prostate Cancer Prevention Trial: Ian Thompson, University of Texas Health Science Center at San Antonio
- 4:15-4:30 Carotene and Retinol Efficacy Trial: Gary Goodman, Fred Hutchinson Cancer Research Center
- 4:30-4:45 Women's Health Initiative Trial: Ross Prentice, Fred Hutchinson Cancer Research Center
- 4:45-5:00 EDRN Lung Array Discussion - David Chia, UCLA
- 5:00-7:00 **Registration and Buffet Dinner**
- 7:00-8:00 Keynote Speaker - Lee Hartwell, President and Director, Fred Hutchinson Cancer Research Center

Monday, October 15th

- 7:30-8:15 **Registration and Continental Breakfast**
- 8:15-8:30 Workshop Welcome - Sudhir Srivastava and David Sidransky

Scientific Session #1: Genomics

Co-chairs: Jose Costa and Peter Barker

- 8:30-8:35 Introduction - Jose Costa
- 8:35-8:55 "Structural Genetic Alterations Detected by Array CGH"
Guest speaker: Donna Albertson, UCSF
- 8:55-9:05 Questions/Discussion
- 9:05-9:30 "Clinical Applications of Genomics of Leukemia"
Guest speaker: Jerald Radich, Fred Hutchinson Cancer Research Center
- 9:30-9:40 Questions/Discussion
- 9:40-10:00 Abstract Preview (five abstracts - 4 min. each)
- "Chromosomal Instability is Commonly Observed in Bronchial Cells from Smokers" ~ Marileila Varella-Garcia

"Aberrant promoter methylation profile of cells in voided urine as a potential method for the early detection of bladder cancer" ~ Adi Gazdar

"Characterization of Genes Expressed in Pancreatic Adenocarcinomas" ~ Randy Haun

"Identification of Secreted Biomarkers from Breast Carcinoma" ~ Lisa Molz

"Identification of a Mononucleotide Repeat as a Major Target for Mitochondrial DNA Alterations in Human Tumors" ~ David Sidransky

10:00-10:30 **BREAK**

10:30-12:00 **Scientific Session #1 continued** ~ Poster Session including all other abstracts submitted for Genomics

12:00-2:30 **BREAK**

Scientific Session #2: Epidemiologic Approaches

Co-chairs: Bill Bigbee and Nancy Kiviat

2:30-2:50 "Prostate Cancer in the Hispanic Population" ~ Carlos E. Bermejo (15 min. presentation, 5 min. discussion)

2:50-3:10 "Amplification/Overexpression of a Mitotic Kinase Gene is Associated with Aneuploidy and Aggressive Phenotype of Human Bladder Cancer" ~ Subrata Sen (15 min. presentation, 5 min. discussion)

3:10-3:30 "A Genetic Variant of *DNMT3B* Promoter and Risk of Lung Cancer -- A Case-Control Study" ~ Hongbing Shen (15 min. presentation, 5 min. discussion)

3:30-4:00 Guest Speaker: Christine B. Ambrosone, Ph.D., Mt. Sinai School of Medicine

4:00-4:30 **BREAK**

Scientific Session #2: continued

4:30-5:00 Guest Speaker: Joel L. Weissfeld, M.D., M.P.H., University of Pittsburgh

5:00-5:20 "The Frequency of Malignant Biopsies in Patients with a Positive Digital Rectal Examination and a Prostate Specific Antigen <4" ~ Aldo A. Ghobriel (15 min. presentation, 5 min. discussion)

5:20-5:40 "Preliminary Data on Association between Pre-Diagnostic Serum Levels of Fatty Acid Synthase (FAS) and Breast Cancer Risk: A Nested-Case Control Study in the CLUE Cohort" ~ Craig J. Newschaffer (15 min. presentation, 5 min. discussion)

5:40-6:00 "Ethnic Differences in the Mutational Spectra of the p53 Gene in

Colorectal Carcinomas" ~ Upender Manne (15 min. presentation, 5 min. discussion)

6:00-7:00 **DINNER**

7:00-7:15 "Biomarker Discovery by Comprehensive Phenotyping" Dr. Nancy Grove, Chief Medical Officer, SurroMed, Inc.

7:15-8:30 **Poster Session**

Tuesday, October 16th

8:00-8:15 **Registration and Continental Breakfast**

Scientific Session #3: Proteomics

Co-chairs: George Wright and Sam Hanash

8:15-8:30 Introduction - George Wright and Sam Hanash

8:30-9:00 "Profiling and Imaging of Proteins Directly from Tumor Tissue by Mass Spectrometry"

Guest speaker: Richard M. Caprioli, Ph.D., Vanderbilt University School of Medicine

9:00-9:15 Discussion

9:15-9:30 "A novel ovarian cancer biomarker: Haptoglobin a chain, identification and characterization with mass spectroscopy and liquid chromatography" ~ Bin Ye (10 min. presentation, 5 min. discussion)

9:30-9:45 "Discovery of Distinct Protein Patterns for Normal, Benign, Pre-neoplastic and Malignant Prostate Epithelial Cells by SELDI Mass Spectrometry" ~ Lisa Cazares (10 min. presentation, 5 min. discussion)

9:45-10:00 "Application of Support Vector Machines to the Classification of ProteinChip® System Mass Spectral Data of Prostate Cancer Serum Samples" ~ Asa-Ben Hur (10 min. presentation, 5 min. discussion)

10:00-10:30 **BREAK**

Scientific Session #3 continued

10:30-11:00 "Proteomic Analysis of Human Lung Adenocarcinomas"

Guest speaker: David G. Beer, Ph.D., University of Michigan Medical School

11:00-11:15 Discussion

11:15-11:30 "A Novel Highly Specific And Sensitive Urine-Based Assay For The Detection Of Bladder Cancer" ~ Robert Getzenberg (10 min. presentation, 5 min. discussion)

- 11:30-11:45 "Proteome analysis of patient serum for the early detection of hepatocellular carcinoma" ~ Laura Steel (10 min. presentation, 5 min. discussion)
- 11:45-12:00 "ErB-2/c-neu, Epidermal Growth Factor Receptor (EGFR), Bcl-2, and p53 in Breast Carcinomas in Pre-and Post-menopausal Women" ~ Andra Frost (10 min. presentation, 5 min. discussion)
- 12:00-1:30 **BREAK**

Scientific Session #4: Bioinformatics and Biostatistics

Co-chairs: Mel Tockman and Robert Negm

- 1:30-2:00 Informatics Pilot Project Presentations/Demo ~ Heather Kincaid and Dan Crichton (20 min. presentation, 10 min. discussion)
- 2:00-2:45 "Emerging Methods in Bioinformatics for Cell Classification and Rare Event Detection: Implications for Cancer Diagnostics and Drug Discovery"
- Guest Speaker: Dr. Alan C. Nelson
- 2:45-2:55 Discussion
- 2:55-3:10 **BREAK**

Approaches to Analysis of Protein Spectra

- 3:10-3:20 "Identification of Patients with Ovarian Cancer from SELDI protein spectra using mixtures of multivariate Normal distributions" ~ Steven Skates
- 3:20-3:30 "Prostate Cancer/Benign Prostate Hypertrophy/Normal Classification Based on High-Dimensional ProteinChip® Array Mass Spectrometry Data: "Boosting" the Power of the Binary-Marker Combination Approach" ~ Yutaka Yasui
- 3:30-3:40 "Finding Markers with a Decision Tree Classifier for ProteinChip Data" ~ Yingsheng Qu
- 3:40-4:00 Discussion

Approaches to Analysis of Gene Microarray Data

- 4:00-4:10 "Experiment Design and Power Calculation for Microarray Experiment" ~ Sue Li
- 4:10-4:20 "Selecting Differentially Expressed Genes from Microarray Experiments" ~ Margaret Pepe
- 4:20-4:30 Discussion