

Workshop Overview



Edward J. Trapido, Sc.D.

Associate Director

Epidemiology and Genetics Research Program

NEVER BEFORE!

The First NCI Epidemiology Leadership Workshop:
Tobacco, Diet, Genes



Conference Background

- ▶ **This workshop will focus on**
 - ▶ **Identifying barriers and gaps in cancer epidemiology related to the topics of tobacco, diet, and genes, and facilitating the conduct of research in these areas.**
 - ▶ **Highlighting the research achievements of EGRP grantees through poster sessions and the creation of an EGRP Research Compendium.**

Conference Goal: develop research initiatives and enhance collaborations for NCI and for extramural investigators.





“The initial step in the Roadmap process involved a series of five meetings in which Dr. Zerhouni and Directors of the various NIH Institutes led invited participants through lively discussions about the most compelling initiatives that the NIH should pursue over the next 10 years that will have the most profound impact on the progress of medical research, both in the United States and worldwide. Participants were asked:

- ▶ What are today’s scientific challenges?**
- ▶ What are the roadblocks to progress?**
- ▶ What do we need to do to overcome roadblocks?**
- ▶ What can’t be accomplished by any single Institute—but is the responsibility of NIH as a whole? ”**



Why Act Now?

- ▶ **Parallel processes at NIH and NCI**
- ▶ **Continuation of planning and reassessment of DCCPS programs**
- ▶ **Recent changes in leadership at DCCPS and EGRP**
- ▶ **Changing time\$ at NIH**



Why Act Now?

- ▶ **Recognition of challenges and opportunities for Epi Research**
 - ▶▶ **Observational research on human populations in the genomic/ proteomic era is difficult**
 - ▶▶ **Translation opportunities from epidemiology & genetic research to tobacco control and dietary interventions**
 - ▶▶ **Days of Research Silos are Over**
 - **Systems, transdisciplinary, and collaborative approach are required**
 - **Requires shared platforms**
 - **Larger, more definitive studies, rather than small ones**
 - **Trans- and multi-institutional studies**



Some Questions to Consider

- ▶ **What is role of epi in working with new technologies?**
 - ▶ **Nanotechnology, Pharmacogenomics, Metabolomics, Proteomics, Structural biology, Bioinformatics**
- ▶ **How can the changing demographics of the US be used as a cancer epidemiology laboratory?**
- ▶ **How will cancer epidemiologists adapt to global access to data, and changing requirements for data sharing and confidentiality?**
- ▶ **What will the impact be of changing health care on epi research?**
- ▶ **What kinds of shared resources are needed? At what level?**



Remainder of the Agenda

8:30 **Workshop Overview and Objectives:**
Edward Trapido, Sc.D., Associate Director, EGRP, DCCPS, NCI

Plenary Session:
The State of the Science

Moderators:
Margaret Spitz, M.D., M.P.H.
Chair, Department of Epidemiology, M.D. Anderson Cancer Center

Graham Colditz, M.D., Dr.P.H.,
Professor of Medicine, Brigham and Women's Hospital, Harvard
University



Agenda



Panelists:

Perspectives on Diet, Genes, and Cancer

Laurence Kolonel, M.D., Ph.D. Deputy Director, Cancer Research Center, University of Hawaii

Perspectives on Tobacco, Genes, and Cancer

Neil Caporaso, M.D., Senior Investigator and Chief, Pharmacogenetics Section, Genetic epidemiology Branch, Human Genetics Program, Division of Cancer Epidemiology and Genetics, NCI

Perspectives on Genetics in Epidemiology

Stephen Chanock, M.D., Section Head, Section on Genomic Variation, Pediatric Oncology Branch and Director, Core Genotyping Facility, Advanced Technology Center, NCI



10:30 *Issues and Opportunities*

Moderators:

Sandra L. Melnick, Dr.P.H. , Chief, AERB, EGRP
Deborah Winn, Ph.D. Chief, CGERB,EGRP

Panelists:

Opportunities in Diet and Energy Balance

Virginia Hartmuller, Ph.D., R.D., F.A.D.A.

Program Director, Diet and Nutrition Epidemiology Program, EGRP

Cancer Epidemiology and Cancer Control Bioinformatics Working Group

Deborah Winn Ph.D., Chief, CGERB, EGRP

Opportunities in Epigenetics

Mukesh Verma, Ph.D. , Program Director, AERB

Opportunities in Epi, Consortia, and Large Scale Science

Daniela Seminara, Ph.D., M.P.H. , Program Director, CGERB



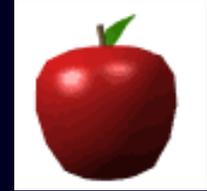
Issues and Opportunities

- 11:30 **Panel Discussion Moderator:**
Sandra L. Melnick, Dr.P.H., Chief, AERB, DCCPS, NCI
- 12:00 **Team Science and Tenure: Is There a Conflict?**
Graham Colditz, M.D., Dr.P.H.
Professor of Medicine, Brigham and Women's Hospital,
Harvard University
- 12:15 **EGRP Extramural Portfolio in Tobacco, Diet, and Genes:
Charge to the Working Groups:**
Sandra L. Melnick, Dr. P.H.



Agenda

12:30 **Lunch and Poster Sessions**



12:30 **Knowledge Transfer of Epidemiology:**
(first 50 people who sign up at Registration
may participate)

**Jon Kerner, Ph.D., Deputy Director,
Research Dissemination and Diffusion,
DCCPS, NCI**



1:45 *Working Groups: Questions*

- ▶ **Each working group will work to address the following questions:**
 - ▶▶ **What are the gaps in the science?**
 - ▶▶ **What are the methodological issues and barriers?**
 - ▶▶ **Where is the science going?**



Agenda for Working Groups



Diet–Gene Interactions

Chair:

Lawrence Kushi, Sc.D. , Associate Director, Etiology and Prevention Research, Kaiser Permanente

Co-Chair:

Rachel Ballard-Barbash, M.D., M.P.H., Associate Director, Applied Research Program, DCCPS, NCI

Co-Chair:

Virginia Hartmuller, Ph.D., R.D., F.A.D.A., Program Director, AERB, EGRP, NCI



Agenda: Working Groups

Haplotypes Versus Genotypes

Chair:

Stephen B. Gruber, M.D. , Ph.D., Director, Cancer Genetics Clinic, and Assistant Professor of Internal Medicine and Epidemiology, University of Michigan

Co-Chair:

Thomas Sellers, Ph.D., M.P.H.

Associate Director, Department of Cancer Control, H. Lee Moffitt Cancer Center and Research Institute

Co-Chair:

Daniela Seminara Ph.D., M.P.H. , Program Director, CBERG, NCI



Agenda: Working Groups

Design Issues and Strategies in the Study of Rare Cancers

Chair:

Nathaniel Rothman, M.D., M.P.H., M.H.S.

**Senior Investigator, Occupational Epidemiology Branch, Division of
Cancer Epidemiology and Genetics, National Cancer Institute**

Co-Chair:

Sholom Wacholder, Ph.D.

**Senior Investigator, Division of Cancer Epidemiology and Genetics,
NCI**

Co-Chair:

**Isis Mikhail, M.D., Dr.P.H., M.P.H, Program Director, CGERB, DCCPS,
NCI**



Agenda: Working Groups

Susceptibility to Tobacco Carcinogenesis: Genotypes Versus Phenotypes

Chair:

Peter Shields, M.D., Ph.D., Director, Cancer Genetics and Epidemiology, Georgetown University Lombardi Cancer Center

Co-Chair:

Xifeng Wu, M.D., Ph.D., Professor, Dept. of Epidemiology, M.D. Anderson Cancer Center

Co-Chair:

Stephen Marcus, Ph.D.

Program Director, Tobacco Control Research Branch, Behavioral Research Program, DCCPS, NCI

6:30 Wrap Up and Summarizing Working Group Sessions: Co-Chairs

6:30 Dinner (on your own, except EGRP Planning Group)



Tomorrow's Agenda

7:00 **EGRP Planning Group**

Continental Breakfast



8:00 *Tomorrow's Agenda: Working Group Reports*

Moderator:

Robert Croyle, Ph.D., Director, DCCPS, NCI

Chairs:

Diet–Gene Interactions

Lawrence Kushi, Sc.D.

Haplotypes Versus Genotypes

Stephen B. Gruber, M.D., Ph.D.

Design Issues and Strategies in the Study of Rare Cancers

Nathaniel Rothman, M.D., M.P.H., M.H.S.

Susceptibility to Tobacco Carcinogenesis:

Genotypes Versus Phenotypes

Peter Shields, M.D., Ph.D.

10:00

Break





10:15 *Agenda: Keynote Address*

Catherine D. DeAngelis, M.D., M.P.H.

Making A Difference with Epidemiology Research

Editor-in-Chief, Journal of the American Medical Association



Agenda: The Future of Consortia

11:00 **Moderator:**
Robert Hiatt, M.D., Ph.D.
Director, Population Sciences/Deputy Director,
UCSF Comprehensive Cancer Center

Panelists:

Cohort Consortia

Michael Thun, M.D., M.S.

Vice President, Epidemiology and Surveillance Research, American
Cancer Society

Case-Control Consortia:

Patricia Hartge, Sc.D.

Deputy Director, Epidemiology and Biostatistics Program, Division of
Cancer Epidemiology and Genetics, NCI

12:30 **Adjourn**



Conference Products

- ▶ **Workshops to be reconvened for initiative development: *This is a first phase only***
- ▶ **Intended publication of working group reports**
- ▶ **Presentations will be available on EGRP website (except for unpublished data)**
- ▶ **Evaluation**
- ▶ **The First NCI Epidemiology Leadership Workshop:
2nd**

