

# SUMMER INSTITUTE IN PUBLIC HEALTH GENOMICS: TRANSLATING GENOMICS INTO POLICY AND PRACTICE



June 22-26, 2009

UNIVERSITY *of* WASHINGTON

Seattle, Washington

<http://www.uwcgph.org>

Supported in part by:

Centers for Disease Control and Prevention  
National Institutes of Health  
National Human Genome Research Institute  
NHGRI Social & Behavioral Research Branch  
UW Center for Genomics and Public Health  
UW Department of Biostatistics

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# Administrative Details

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## General Information

The 2009 Summer Institute in Public Health Genomics (SIPHG) will be held in the South Campus Center of the University of Washington in Seattle, Washington. A map showing this location is on the **Institute website: [www.uwcgph.org](http://www.uwcgph.org)**.

The Summer Institute will provide an introduction to several key areas broadly related to public health genomics with an emphasis on translation of genomic information to practice (both US and globally). The Institute is geared to professionals interested in obtaining knowledge and skills for integrating genomics principles and applications into health practice, policy, and research.

The Institute consists of three sessions. The first session offers a choice of two 2-day modules, the second session is comprised of one all-day module, and the third session offers a choice of two 2-day modules.

The modular nature of the Institute enables participants to design a program best suited to their backgrounds and interests. Individuals attending the Institute will receive certificates of course completion in recognition of their participation.

In 2009 there will be three concurrent Institutes in Seattle and a European Institute in Liège, Belgium. Details about the Summer Institute in Statistical Genetics and Summer Institute in Statistics and Modeling in Infectious Diseases in Seattle, June 15-July 1, and the European Institute in Statistical Genetics in Liège, August 31-September 9, are available online via the Summer Institutes website: <http://www.biostat.washington.edu>. Registration for all four Institutes is available only online via each Institute's website. Links to the individual Institutes are listed at the Summer Institutes website.

*SIPHG participants are invited to attend a Symposium in Honor of Elizabeth Thompson on Saturday, June 27, 2009.*

## Lodging Accommodations

A list of local hotels offering special rates to Institute participants is available on the website, along with information for requesting dormitory accommodation.

## Registration Deadlines and Fees

**Session 1**, Monday and Tuesday (June 22nd and June 23rd):

Module 21: Public Health Genomics

Module 22: Translation to Practice

Participants may only choose one of these two modules as they run concurrently. There is a joint seminar both afternoons where participants of the two modules are combined. It is included in the fee. The joint afternoon seminar is titled: Cross-cutting Session: Genomics and Health Literacy -- Getting it and Passing it on.

Registration fees for these two-day modules: \$440 per module (USD)

Reduced rate for Academic, Government, or Non-Profit: \$320 (USD)

**Session 2**, Wednesday (June 24th):

Module 23: Is Genetic Testing the Path to Personalized Medicine? Issues and Implications for Translation to Practice

Registration fee for this one-day module: \$180 (USD)

Reduced rate for Academic, Government, or Non-Profit: \$120 (USD)

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# Administrative Details

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**Session 3**, Thursday and Friday (June 25th and 26th):  
Module 24: Genomic Epidemiology  
Module 25: Translation to Practice: A Global Perspective

Participants may only choose one of these two modules as they run concurrently. There is a joint seminar both afternoons where participants of the two modules are combined. It is included in the fee.  
The joint seminar is called: Cross-cutting session: Biobanks/Biotrusts: Opportunities and Challenges

Registration fees for these two-day modules: \$440 per module (USD)  
Reduced rate for Academic, Government, or Non-Profit: \$320 (USD)

Registration fees cover tuition, course materials, coffee breaks and social hour. Meals, travel and lodging are not covered. No textbooks are required or supplied.

**Refund Policy:** A \$100 processing fee will be deducted from refunds requested after Monday, May 25, 2009. No refunds will be processed after Monday, June 8, 2009.

Payment can be made with all major credit cards online via a secure server. Mailed payments can be made with a purchase order (U.S. companies and organizations only) or by check or money order in U.S. dollars drawn on a U.S. bank. Checks should be made payable to University of Washington. All mailed payments should be sent to:

SIPHG  
c/o Department of Biostatistics  
University of Washington  
Box 357232  
Seattle, WA 98195-7232

For wire-transfers, please refer to your Registration Invoice for instructions.

## Scholarships

Registration-fee scholarships are available. Applications are due on or before **Monday, April 27, 2009**, and recipients will be notified by Monday, May 4, 2009. Applicants should register for the modules and check the “Yes” button to the question, “Are you applying for a Summer Institute scholarship?” so that payment will not be required at time of registration. After registering, applicants should send a letter explaining their reason for wishing to attend the Institute, the modules they wish to attend, and a one-page CV to: **cgph@u.washington.edu**

Email inquiries can be sent to:  
**cgph@u.washington.edu**

Institute website:  
**www.uwcgph.org**



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# Instructors

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**Robin Bennett, MS, CGC**

Senior Genetic Counselor  
Clinic Manager, Medical Genetics Clinic  
University of Washington

**Toby Citrin, JD**

Adjunct Professor, Health Management & Policy  
Director, Center for Public Health & Community  
Genomics  
University of Michigan

**Ralph J. Coates, PhD**

Associate Director for Science  
Office of Public Health Genomics  
Centers for Disease Control and Prevention

**Gail Davey, MBBChir MD**

Associate Professor, School of Public Health  
Addis Ababa University  
Addis Ababa, Ethiopia

**Patricia Deverka, MD**

Associate Professor, School of Pharmacy  
University of North Carolina, Chapel Hill

**Debra Duquette, MS, CGC**

Genomics Coordinator  
Michigan Department of Community Health

**Karen L. Edwards, PhD**

Associate Professor, Epidemiology  
Director, UW Center for Genomics & Public Health  
Director, Summer Institute in Public Health Genomics  
University of Washington

**William Gregory Feero, MD, PhD**

Senior Advisor to the Director for Genomic Medicine  
National Human Genome Research Institute

**Rosalynn Gill, PhD**

Chief Science Officer  
Sciona, Inc.

**Arthur Grollman, MD**

Professor, Pharmacological Sciences  
State University of New York at Stonybrook

**Cecile Janssens, PhD**

Associate Professor, Epidemiology  
Erasmus University Medical Center  
Rotterdam, Netherlands

**Kimberly A. Kaphingst, ScD**

Investigator, Social and Behavioral Research Branch  
National Human Genome Research Institute

**Colleen McBride, PhD**

Chief & Senior Investigator  
Social and Behavioral Research Branch  
National Human Genome Research Institute

**Joanna Mountain, PhD**

Senior Director of Research  
23andMe

**Kristin Peterson Oehlke, MS, CGC**

State Genomics Coordinator  
Minnesota Department of Health

**Bradford Therrell, Jr., PhD**

Professor, Department of Pediatrics  
Univ. of Texas Health Science Center at San Antonio  
Director, Nat'l Newborn Screening & Gen. Resource Ctr

**Rodolfo Valdez, PhD, MSc**

Epidemiologist  
Office of Public Health Genomics  
Centers for Disease Control and Prevention

**David Veenstra, PharmD, PhD**

Associate Professor, Pharmacy  
University of Washington

**Carolyn (Cindy) Watts, PhD**

Professor, Health Services  
University of Washington

**Ann M. Willey, PhD, JD**

Director, Office of Laboratory Policy & Planning  
Wadsworth Center, New York State Dept of Health

**David E. Winickoff, JD**

Assistant Professor, Bioethics & Society  
University of California (Berkeley)

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# Modules

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## Session 1

### **Module 21: Public Health Genomics**

Dates: Monday & Tuesday (6/22 & 6/23, 2009)

Lead Instructor: Cindy Watts, PhD

Guest Lecturer: Dave Veenstra, PharmD, PhD; Patricia Deverka, MD; Karen Edwards, PhD

This module will cover the basic content areas of public health genomics and is intended as a broad overview of this emerging field. Topics include pharmacogenomics, cost-effectiveness and ethical, legal and policy issues. It will also include examples for evaluating the clinical utility of genetic tests for chronic diseases (including gene expression profiling for breast cancer, warfarin, and factor V Leiden) and the broad ethical and policy implications of the application of genomics to population health.

### **Module 22: Translation to Practice**

Dates: Monday & Tuesday (6/22 & 6/23, 2009)

Lead Instructor: Ralph Coates, PhD

Guest Lecturers: Rodolfo Valdez, PhD; Greg Feero, MD, PhD; Robin Bennett, MS, CGC; Debra Duquette, MS, CGC

This module will provide an overview and examples of activities involved in translating research in genetic or genomic testing and in family health history into clinical and public health practice. It will introduce processes for evaluating both genomic tests and family history tools to determine whether they are ready for use and can be recommended for practice, and it will introduce programs developed to take the next steps to translate evidence-based guidelines into practice in medicine and in public health. Day 1 will focus on common, complex, multi-factorial diseases and disorders, not highly penetrant, single-gene disorders. It will include evaluations of the use of genomic tests in risk prediction and screening. It will also cover surveillance, health education, and policy interventions in public health and clinical practice settings to increase the use of evidence-based genomics services. Examples will be taken from cancer genetics; primarily breast, ovarian, and colorectal cancers; coronary heart disease; and depression. Day 2 will cover the evaluation of family health history tools and the use of family health history information from the individual/clinical perspective to the population/public health perspective and future initiatives around family health history information.

### **Cross-cutting Session: Genomics and Health Literacy—Getting it and Passing it on Joint session for Modules 21 and 22**

Dates: Monday & Tuesday (6/22 & 6/23, 2009)

Lead Instructor: Kim Kaphingst, ScD

Guest Lecturer: Debra Duquette, MS, CGC

Health and genetic literacy have been raised as issues of critical importance in the post-genomic era. Little is known about what the public, and defined target audiences within the public, need to know in order to be effective consumers of the genomic knowledge that is emerging in the public and clinical domains. This session will accomplish the following learning objectives: 1) Introduce and consider the major components of health literacy that may influence how the general public responds to genetic and genomic information; 2) Raise awareness of the research gaps in our understanding of the public's information needs and current competencies related to genetic information; 3) Use the examples of family history, newborn screening, and direct to consumer marketing of personalized genomic risk assessments to consider public information processing and competencies with respect to genomic information; and 4) Discuss public health friendly tools for assessing health and genetic literacy.

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# Modules

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## Session 2

### **Module 23: Is Genetic Testing the Path to Personalized Medicine? Issues and Implications for Translation to Practice**

Date: Wednesday (6/24, 2009)

Instructors and Panelists: Patricia Deverka, MD; Karen Edwards, PhD; Rosalynn Gill, PhD; Cecile Janssens, PhD; Joanna Mountain, PhD; Colleen McBride, PhD; Kris Peterson Oehlke, MS, CGC; Ann Willey, PhD, JD

This special 1-day session will explore issues in the emerging area of genetic testing. Through presentations and panel discussion, the course will provide an overview of genetic testing and direct-to-consumer marketing of tests, examples of products on the market and how the tests are viewed by consumers, public health programs, regulators and researchers.

## Session 3

### **Module 24: Genomic Epidemiology**

Dates: Thursday & Friday (6/25 & 6/26, 2009)

Lead Instructor: Karen L. Edwards, PhD

Guest Lecturer: Cecile Janssens, PhD

This module will provide a broad overview of the field of genomic epidemiology, with an emphasis on issues related to the translation of genomic information into practice. Topics to be covered will include introduction to genetic epidemiologic study designs, evaluating gene x environment interactions, principles of screening as applied to genomic applications, and risk prediction modeling using genomic information. The course is intended for a broad audience, including those with no previous exposure to the field, but who are interested in understanding the basic concepts of genomic epidemiology and implications for translation and practice.

### **Module 25: Translation: A Global Perspective**

Dates: Thursday & Friday (6/25 & 6/26, 2009)

Lead Instructors: Gail Davey, MBBChir MD; Arthur Grollman, MD

This module will focus on the use of genomic information in addressing diseases of public health importance around the world. The course will provide an overview of global health issues and specific examples of how genomic information can be used in reducing disease. The course will include researchers working in the US and developing countries to translate genomic information to effective prevention and interventions. Examples from the field include a project on podocniosis, a public health problem in Africa, where genomic information was used to develop a practical intervention to address this issue in Ethiopia. Additional examples will provide a broad overview of issues in conducting genomic research around the world and will include information relevant to both infectious and chronic diseases. The course is intended for those with an interest in international health and genomics.

### **Cross-cutting Session: Biobanks/Biotrusts: Opportunities and Challenges**

#### **Modules 24 and 25 (Joint session for both modules)**

Dates: Thursday & Friday (6/25 & 6/26, 2009)

Lead Instructors: David Winickoff, JD; Toby Citrin, JD

Guest Lecturer: Debra Duquette, MS, CGC; Bradford Therrell, Jr, PhD

The goal of this session is to highlight both the scientific potential of Biobanks/Biotrusts for advancing public health genomics knowledge and advancing research, as well as highlighting the ethical, legal, social and governance issues arising from the development of these repositories. The experience of other countries and non-profit organizations developing biobanks will be shared. Representatives from state public health programs will also participate in discussions and will describe their experience in planning state-sponsored biobanks.

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## Daily Schedule

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Time	Daily Activity
8:00 am – 8:30 am	Coffee (and Registration on Monday, Wednesday & Thursday)
8:30 am – 10:00 am	Class Session
10:00 am – 10:30 am	Break
10:30 am – 12:30 pm	Class Session
12:30 pm – 2:00 pm	Lunch
2:00 pm – 3:30 pm	Class Session
3:30 pm – 4:00 pm	Break
4:00 pm – 5:00 pm	Class Session
5:00 pm – 6:00 pm	Social Hour & Networking (Mon. & Wed.)

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## Weekly Schedule

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Monday June 22	Module 21: Public Health Genomics Module 22: Translation to Practice Modules 21 & 22: Genomics and Health Literacy
Tuesday June 23	Module 21: Public Health Genomics Module 22: Translation to Practice Modules 21 & 22: Genomics and Health Literacy
Wednesday June 24	Module 23: Is Genetic Testing the Path to Personalized Medicine? Issues and Implications for Translation to Practice
Thursday June 25	Module 24: Genomic Epidemiology Module 25: Translation to Practice: A Global Perspective Modules 24 & 25: Biobanks/Biotrusts: Opportunities and Challenges
Friday June 26	Module 24: Genomic Epidemiology Module 25: Translation to Practice: A Global Perspective Modules 24 & 25: Biobanks/Biotrusts: Opportunities and Challenges

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Center for Genomics & Public Health

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