

September 10 - 11, 2009
 The Johns Hopkins University
 School of Medicine
 Thomas B. Turner Building
 Baltimore, Maryland
 Jointly Provided by
 The Institute for Johns Hopkins Nursing



Genetic Medicine for the Healthcare Provider

GENES TO SOCIETY:

The Johns Hopkins University School of Medicine
 presents
 McKusick-Nathans Institute of Genetic Medicine



DESCRIPTION

The Human Genome Project (HGP) and the continuing rapid progress in genetics and genomics are producing new insights and vast amounts of information that will ultimately revolutionize medicine. Increasingly, we are identifying a genetic contribution to all human disease and the prospect of genetic testing for predisposition to disease, molecular diagnosis, prognosis and response to treatment is becoming a reality. In short, genetic information about individual patients is more and more relevant for all of medicine. These developments are giving rise to a new individualized view of health and disease: "genetic medicine".

This 1-1/2 day course is designed to highlight the new discoveries in genetic medicine for use in your clinical practice TODAY.

WHO SHOULD ATTEND

This activity is intended for physicians (primary care and sub-specialists), nurses, nurse practitioners, physician assistants, genetic counselors, and physicians in training.

OBJECTIVES

After attending this activity, the participant will demonstrate the ability to:

- 1) Recognize the genetic and environmental bases of the individuality of each patient
- 2) Identify online resources for genetic-testing and interpretation
- 3) State the genetic components of adult and childhood common complex diseases
- 4) Discuss the basis for pharmacogenetics in the primary care setting
- 5) Interpret and use information and resources to answer patient's questions about genetics and medicine

Accreditation Statement

This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education through the joint sponsorship of The Johns Hopkins University School of Medicine and The Institute for Johns Hopkins Nursing. The Johns Hopkins University School of Medicine is accredited by the ACCME to provide continuing medical education for physicians.

GENERAL INFORMATION

Registration

September 10, 2009 8:00 a.m. - 12:00 noon

Location

Thomas B. Turner Building
 The Johns Hopkins University School of Medicine
 720 Rutland Avenue
 Baltimore, Maryland 21205

The Turner Building is located on Rutland Avenue at Monument Street. Directions and campus parking information are available on our website under the Contact and Travel section at www.HopkinsCME.edu. Handicapped parking is available in the nearby Rutland Garage. Johns Hopkins is smoke-free.

Fees

REGISTRATION CUT-OFF DATE: September 4, 2009

Methods of Payment: Payment by check or credit card must accompany the registration form prior to the activity. On-site payments by credit card only. Foreign payments must be by credit card or with a U.S. Dollar World Money Order. The registration fee includes instructional materials, continental breakfasts, refreshment breaks, lunch and social event.

Physicians..... \$ 400
 Allied Health Professionals/Physician Assistants/Nurses/
 Nurse Practitioners..... \$ 300
 Non Johns Hopkins Residents*/Clinical Fellows*..... \$ 200
 Johns Hopkins Residents*/Clinical Fellows*..... \$ N/C
 NSGC Credit..... (add \$25 to registration fee)
 *with verification of status

You will receive an online confirmation by e-mail if you have provided your e-mail address. Otherwise

confirmation will be sent by mail. If you have not received it by Friday, September 4, 2009 call (410) 502-9634 to confirm that you are registered. Certificates of attendance will be mailed by October 26, 2009.

The Johns Hopkins University reserves the right to cancel or postpone any activity due to unforeseen circumstances. In this event, the University will refund the registration fee but is not responsible for travel expenses.

Late Fee and Refund Policy

A \$50 late fee applies to registrations received after 5:00 p.m. EST on September 4, 2009. A handling fee of \$50 will be deducted for cancellation. Refund requests must be received by fax or mail by September 4, 2009. No refunds will be made thereafter. Transfer of registration to another Johns Hopkins conference in lieu of cancellation is not possible.

Social Event

A complimentary reception for registrants and faculty will be held September 10, 2009 in the Pre-function Area, ground level of the Broadway Research Building immediately following the activity. Please indicate your intent to attend on the registration form.

Hotel and Travel Information

We strongly encourage you to book your accommodations at the Hilton Garden Inn Baltimore Inner Harbor, which is the conference headquarters hotel. The Johns Hopkins Office of CME makes every effort to secure the best rate for overnight accommodations. The rate is part of a negotiated conference package that incorporates many services. By staying at the host hotel and booking within the room block, you help us maintain current conference benefits and keep future registration fees reasonable.

Credit Designation Statement

The Johns Hopkins University School of Medicine designates this educational activity for a maximum of 12.75 *AMA PRA Category 1 Credits*™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Nursing Credit

AANC

The Institute for Johns Hopkins Nursing is accredited as a provider of continuing nursing education by the American Nurses Credentialing Center's Commission on Accreditation.

This 12.2 contact hour Educational Activity is provided by The Institute for Johns Hopkins Nursing.

AANP

The Institute for Johns Hopkins Nursing is approved as a provider of nurse practitioner continuing education by the American Academy of Nurse Practitioners: AANP Provider Number 061216.

This program has been granted 12.2 contact hours of continuing education (which includes pending of pharmacology hours).

Other Credit

Contact Hours for Non-Physicians

The Johns Hopkins University has approved this activity for 12.75 contact hours for non-physicians.

American Academy of Physician Assistants (AAPA)

AAPA accepts AMA Category 1 CME credit for the PRA from organizations accredited by ACCME.

Professional Counselors and Therapists

This CE Program has been approved by the Maryland Board of Professional Counselors and Therapists for Category A.

National Society of Genetic Counselors (NSGC)

This event has been submitted to the National Society of Genetic Counselors (NSGC) for approval of Category 1 CEUs. The American Board of Genetic Counseling (ABGC) accepts CEUs approved by NSGC for purposes of recertification. Approval for the requested CEUs and Contact Hours is currently pending.

Please note: there is an additional fee for this credit. See registration form.

Policy on Speaker and Provider Disclosure

It is the policy of The Johns Hopkins University School of Medicine and the Institute for Johns Hopkins Nursing that the speaker and provider disclose real or apparent conflicts of interest relating to the topics of this educational activity, and also disclose discussions of unlabeled/unapproved uses of drugs or devices during their presentation(s). The Johns Hopkins University School of Medicine OCME has established policies in place that will identify and resolve all conflicts of interest prior to this educational activity. Detailed disclosure will be made in the activity handout materials.

Please consider this when making your overnight accommodations decision.

Hilton Garden Inn Baltimore Inner Harbor

625 South President Street Phone: (410) 234-0065
 Baltimore, Maryland FAX: (410) 234-0299
 Reservations: (877) 782-9444
 Group Code: CME

website: www.baltimoreinnerharbor.hgi.com

HOTEL RESERVATION CUT-OFF DATE: AUGUST 10, 2009

Pleasantly situated in Harbor East, the Hilton Garden Inn Baltimore Inner Harbor hotel blends with its fashionable surroundings and offers excellent accommodations within walking distance of Downtown Baltimore. Call the Hilton Garden Inn directly to make your room reservation and mention the **Johns Hopkins CME** course to receive the special group rate of \$129, single or double, plus tax. Complimentary transportation will be provided to the activity. On-site parking is available at an additional charge. Check-in time is 3:00 p.m.

Emergency Calls

During the days of this activity only, September 10-11, direct emergency calls to the Hopkins registration desk, (410) 955-3673. Messages will be posted for participants.

Americans with Disabilities Act

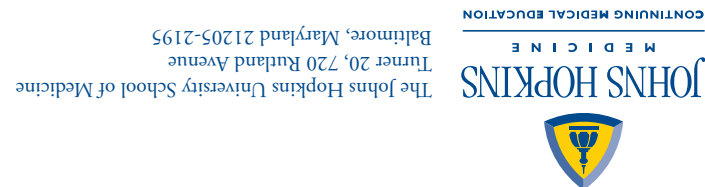
The Johns Hopkins University School of Medicine and The Institute for Johns Hopkins Nursing fully comply with the legal requirements of the ADA and the rules and regulations thereof. Please notify us if you have any special needs.

September 10 - 11, 2009 • Baltimore, Maryland



Genetic Medicine for the Healthcare Provider

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DATED MATERIAL

Non-Profit Org.
 U.S. Postage
 PAID
 Baltimore, MD
 Permit No. 5839

PROGRAM

Thursday, September 10, 2009

8:00 - 8:30 Registration and Continental Breakfast

8:30 - 8:45 **Opening Comments and Course Objectives**
David Valle, MD and Charles Wiener, MD

8:45 - 9:20 **Individualized Medicine**
David Valle, MD

9:20 - 9:30 **Question and Answer**

9:30 - 10:00 **Using the Web: How to Keep Up with Your Patients**
Joseph D. McInerney, MA, MS

10:00 - 10:30 **Clinical Questions and Coffee: The Genetic Internet Café**
Johns Hopkins Genetic Counselors

10:30 - 11:00 **Individuals and Infections: The Battle Between You and Your Bugs**
Steven M. Holland, MD

11:00 - 11:10 **Question and Answer**

11:10 - 11:40 **Metagenomics**
Claire Fraser-Liggett, PhD

11:40 - 11:50 **Question and Answer**

11:50 - 12:20 **Pharmacogenetics: Which Drugs, How Much, and For Whom?**
Richard Weinshilboum, MD

12:20 - 12:30 **Question and Answer**

12:30 - 2:00 **Lunch with Genetic Experts: Cases and Topics Relevant to Your Practice**

2:00 - 2:30 **The Other Genome: Your Mom's Mitochondria**
Ronald Cohn, MD

2:30 - 2:40 **Question and Answer**

2:40 - 3:10 **Genetics of Autoimmune/Rheumatologic Disorders: From Joint Pain to Rash**
Antony Rosen, MD, PhD

3:10 - 3:20 **Question and Answer**

3:20 - 4:00 **Clinical Questions and Coffee: The Genetic Internet Café**
Johns Hopkins Genetic Counselors

4:00 - 4:50 **Keynote Lecture Systems Pathobiology: A Contemporary Approach to Redefining Human Disease**
Joseph Loscalzo, MD, PhD

4:50 - 5:00 **Question and Answer**

5:00 - 7:00 **Reception**
BRB Ground Floor Pre-Function Area

Friday, September 11, 2009

8:00 - 8:10 **Announcements**
David Valle, MD and Charles Wiener, MD

8:10 - 8:40 **Genetics of Cancer Diagnosis, Prognostication, and Outcomes for Your Patient**
Bert Vogelstein, MD

8:40 - 8:50 **Question and Answer**

8:50 - 9:20 **Old Genes, New Diseases**
Julie Hoover-Fong, MD, PhD

9:20 - 9:30 **Question and Answer**

9:30 - 9:55 **Fetal Determinants of Disease**
George Dover, MD

9:55 - 10:00 **Question and Answer**

10:00 - 10:30 **Clinical Questions and Coffee: The Genetic Internet Café**
Johns Hopkins Genetic Counselors

10:30 - 10:55 **New Technologies: Risk, Diagnosis, Prognosis, and Therapy**
Kimberly F. Doheny, PhD

10:55 - 11:00 **Question and Answer**

11:00 - 11:30 **ClinSeq: A Pilot Approach to Clinical Genomics**
Les Biesecker, MD

11:30 - 12:00 **Genetics and Public Policy: Protecting the Public through Evidence-Based Policy**
Kathy Hudson, PhD

12:00 **Closing Comments and Adjournment**
David Valle, MD and Charles Wiener, MD
Please complete and return the Evaluation and Credit Report Forms.

The Johns Hopkins University School of Medicine and The Institute for Johns Hopkins Nursing take responsibility for the content, quality and scientific integrity of this CME activity.

This schedule is subject to change.

To Register or for Further Information

Register Online www.HopkinsCME.edu

Register by Phone (credit card only) (410) 502-9634

Register by Fax (866) 510-7088

Confirmation/Certificates (410) 502-9634

General Information (410) 955-2959

E-mail the Office of CME cmenet@jhmi.edu

Sponsoring Department Institute of Genetic Medicine Website: www.hopkinsmedicine.org/geneticmedicine

For general information, the direct link for this CME activity web page is: <http://www.hopkinscme.edu/CourseDetail.aspx/80020727>.

Acknowledgement
Applications for commercial support from health care related industries are pending. A complete list of contributors will be provided in the syllabus.

SPEAKERS

Activity Directors

David Valle, MD
Henry J. Knott Professor and Director of the McKusick-Nathans Institute of Genetic Medicine Professor, Departments of Pediatrics, Ophthalmology and Molecular Biology and Genetics Director, Predoctoral Training Program in Human Genetics Director, Center for Inherited Disease Research

Charles Wiener, MD
Professor, Medicine Vice-Chair of Education and House Staff Director, Osler Medical

Guest Speakers

Les Biesecker, MD
Chief and Senior Investigator Genetic Disease Research Branch Head, Human Development Section Head, Physician Scientist Development Program National Human Genome Research Institute Bethesda, Maryland

Joseph Loscalzo, MD, PhD
Hersey Professor of the Theory and Practice of Medicine Harvard Medical School Chairman, Department of Medicine Physician-in-Chief Brigham and Women's Hospital Boston, Massachusetts

Joseph D. McInerney, MA, MS
Executive Director National Coalition for Health Professional Education in Genetics (NCHPEG) Lutherville, Maryland

Steven M. Holland, MD

Chief, Laboratory of Clinical Infectious Diseases Chief, Immunopathogenesis Section, LCID Tenured Investigator National Institute of Allergy and Infectious Diseases National Institutes of Health Bethesda, Maryland

Claire Fraser-Liggett, PhD
Professor, Medicine, Microbiology and Immunology Director, Institute for Genome Sciences University of Maryland School of Medicine Baltimore, Maryland

Richard Weinshilboum, MD

Professor of Medicine Professor of Pharmacology The Mayo Clinic Rochester, Minnesota

Johns Hopkins Speakers

Ronald Cohn, MD
Assistant Professor, Pediatrics, Neurology and McKusick-Nathans Institute of Genetic Medicine

Kimberly F. Doheny, PhD
Assistant Professor, McKusick-Nathans Institute of Genetic Medicine Director, Genotyping Laboratory, Center for Inherited Disease Research

George Dover, MD
Given Professor of Pediatrics Director, Johns Hopkins Children's Center Professor, Medicine and Oncology

Julie Hoover-Fong, MD, PhD

Assistant Professor, Pediatrics and McKusick-Nathans Institute of Genetic Medicine Director, Greenberg Center for Skeletal Dysplasias

Kathy Hudson, PhD

Associate Professor in the Berman Institute of Bioethics, McKusick-Nathans Institute of Genetic Medicine, and Pediatrics

Antony Rosen, MD, PhD

Professor and Director, Rheumatology

Bert Vogelstein, MD

Clayton Professor of Oncology and Pathology Howard Hughes Investigator

REGISTRATION FORM

GENES TO SOCIETY: Genetic Medicine for the Healthcare Provider
September 10-11, 2009

To Register: Online: www.HopkinsCME.edu **By fax:** (866) 510-7088
By phone (credit card only): (410) 502-9634

Or mail this form to The Johns Hopkins University, Office of Continuing Medical Education, P.O. Box 64128, Baltimore, Maryland 21264-4128. Include check payable to **HOPKINS/80020727**, or include credit card information below.

PAYMENT MUST ACCOMPANY FORM TO CONFIRM YOUR REGISTRATION.

Please type or print clearly:

last name first name middle initial

primary degree (for name badge) primary specialty

preferred mailing address

city state ZIP + 4 code country

daytime telephone fax number

e-mail _____

You will receive confirmation notice by e-mail if you provide your e-mail address.

Check here if you wish to receive e-mail and/or fax notices about upcoming CME activities.

I will attend the complimentary reception.

Course Number 80020727

What do you hope to learn by attending this activity?

Please notify us if you have any special needs.

Registration Fees:
 Physicians.....\$ 400
 Allied Health Professionals/Physician Assistants/Nurses/Nurse Practitioners\$ 300
 Non Johns Hopkins Residents*/Clinical Fellows*\$ 200
 Johns Hopkins Residents*/Clinical Fellows*\$ N/C
 NSGC Credit..... (add \$25 to registration fee)
 *with verification of status

For registrations received after 5:00 p.m. EST on September 4, 2009, include a \$50 late fee. On-site registrations are payable only by credit card.

Total amount enclosed \$ _____

Payment Type:

JHU Faculty/Staff Only: Complete registration form and return with appropriate form below to OCME, Turner 20.
 Internal Order Number: The ION Data Request Form, can be found online at <http://www.hopkinscme.edu/pdfs/IonRequest.pdf>.
 Tuition Remission: To apply for TR, go to <http://benefits.jhu.edu/EduBenefits/tuitionRemission.cfm>. This is a non-credit professional development activity.

Check (See instructions on top of form.)
 Credit Card: VISA MASTERCARD DISCOVER AMEX

Card # _____ - _____ - _____ - _____ Exp. Date _____

Name on Card Signature and Date