The UCLA Clinical Genomics Center and the Office of Continuing Medical Education present

4th Annual Symposium
Clinical Applications of Genome-Wide Testing

Friday, February 5, 2016
NRB Auditorium
UCLA Campus
Los Angeles, California
Clinical Applications of Genome-Wide Testing

Course Description
The UCLA Clinical Genomics Center’s 4th Annual Symposium will provide important information about the appropriate clinical application of whole genome technologies including whole exome sequencing, chromosomal microarray analysis and sequencing of circulating cell free fetal DNA. A distinguished roster of speakers will discuss how these technologies are used to identify mutations in particular Mendelian disorders and for prenatal screening. Experts in a variety of disorders will highlight examples of improved patient outcomes using these definitive diagnostic approaches. The event will include a discussion of the highly complex ethical considerations associated with this extraordinary diagnostic opportunity and its impact and a mock case evaluation by the Exome Sequencing Genomic Data Board.

Goals and Objectives
At the conclusion of this course, participants should be able to:
• Discuss appropriate application of genome-wide analysis within clinical practice
• Identify the clinical situations in which whole exome sequencing provides the most appropriate approach to genetic testing
• Recognize strengths and limits of exome sequencing
• Understand the clinical application of new technologies in the perinatal setting
• Develop a better understanding of the complex ethical considerations and reporting challenges presented by these genome-wide technologies
• Recognize the complex psychosocial issues faced by individuals undergoing whole exome sequencing and the importance of genetic counseling

Target Audience
This course is targeted to adult and pediatric specialists in cardiology, neurology, oncology, ophthalmology, psychiatry, and neonatology; general and fetal medicine obstetricians; clinical and molecular geneticists; genetics counselors; molecular pathologists; clinical laboratory scientists; and pathologists, clinicians, fellows and residents with an interest in genomic medicine.

Course Chair
Wayne W. Grody, MD, PhD, FACMG, FCAP
Professor of Pathology and Laboratory Medicine, Pediatrics, and Human Genetics*
Director, UCLA Molecular Diagnostics Laboratories
Director, Clinical Genomics Center

Course Co-Chair
Fabiola Quintero-Rivera, MD, FACMG
Associate Professor*
Department of Pathology and Laboratory Medicine
Associate Director, Clinical and Molecular Cytogenetics Laboratory
UCLA Clinical Genomics Center
UCLA Health System

Guest Faculty
Kym Boycott, PhD, MD, FRCP, FRCMG
Clinical Geneticist, Children’s Hospital of Eastern Ontario
Senior Scientist, Children’s Hospital of Eastern Ontario Research Institute
Professor, Department of Pediatrics, University of Ottawa
Ottawa, Canada

Kristin Herman, MD
Associate Clinical Diplomat
Assistant Clinical Professor
University of California at Davis Medical Center
Sacramento, California

Lauren J. Isley, MS, LCGC
Genetic Counselor
California Cryobank
Los Angeles, California

Joseph Shieh, MD, PhD
Assistant Professor, Division of Medical Genetics, Department of Pediatrics
Co-Director, Personalized Genomics Clinic
Program Director, UCSF Medical Genetics Training Program
UCSF Benioff Children’s Hospital
Institute for Human Genetics
University of California San Francisco
San Francisco, California

Anne Slavotinek, MBBS, PhD
Professor of Clinical Pediatrics
Director, Personalized Genomics Clinic
University of California, San Francisco
San Francisco, California

Josh Deignan, PhD, FACMG
Assistant Professor*
Associate Director, UCLA Molecular Diagnostics Laboratories
Department of Pathology and Laboratory Medicine

Naghmeh Dorrani, MS, LCGC
Certified Genetics Counselor*
UCLA Genetics

Hane Lee, PhD
Assistant Adjunct Professor*
Pathology and Laboratory Medicine

Stanley Nelson, MD
Professor of Human Genetics*
Professor of Pathology and Laboratory Medicine*
Co-Director, Center for Duchenne Muscular Dystrophy

Samuel P. Strom, PhD
Assistant Clinical Professor*
Department of Pathology and Laboratory Medicine

Stefan Timmermans, PhD
Professor
Department of Sociology, UCLA

Eric Vilain, MD, PhD
Professor*
Departments of Pediatrics, Urology, Human Genetics
Chair, Medical Genetics Clinic
Director, Center for Gender-Based Biology

*COURSE FACULTY

*David Geffen School of Medicine at UCLA
PROGRAM SCHEDULE

8:15  Registration/Continental Breakfast

9:00  Welcome
      Kelsey C. Martin, MD, PhD

9:10  Overview of Clinical Exome Sequencing
      Stanley Nelson, MD

9:35  Genomics to Augment Neonatal and Perinatal Care
      Joseph Shieh, MD, PhD

10:00 Whole Exome from the Perspective of a Clinical Geneticist:
      The Good, the Bad, and the Ugly
      Kristin Herman, MD

10:25 Questions and Answers

10:35 Break

11:05 Clinical Exome Sequencing – Challenges for a Lifetime
      Anne Slavotinek, MBBS, PhD

11:30 Uncertainty and Causality in Clinical Exome Sequencing
      Stefan Timmermans, PhD

11:55 Questions and Answers

12:05 Lunch

1:30 Keynote Speaker

          Canada’s Path Forward for Rare Diseases: Discovery to Translation
          Kym M. Boycott, MD, PhD, FRCPC, FCCMG

2:15 Questions and Answers

2:30 Challenges of Interpreting the Variants of Unknown Clinical Significance
      for Patients
          Naghmeh Dorrani, MS, LCGC

2:55 Next-Generation Sequencing for Noninvasive Prenatal Testing:
      Historical Context and Clinical Implications
          Wayne W. Grody, MD, PhD, FACMG, FCAP

3:20 Questions and Answers

3:30 Break

4:00 Experiences with Genome-Wide Testing on Individuals Conceived via
      Gamete Donation
          Lauren J. Isley, MS, LCGC

4:25 The Interpretative Process and Data Reporting: A Mock Case Discussion
      Hane Lee, PhD, Samuel P. Strom, PhD, Josh Deignan, PhD, FACMG,
      Naghmeh Dorrani, MS, LCGC, Eric Vilain, MD, PhD

5:15 Closing Remarks
      Wayne W. Grody, MD, PhD, FACMG, FCAP

5:25 Adjourn
GENERAL INFORMATION

Fee $125
Genetic Counselors, CLS $75
Fellows/Residents/Students $35

Refunds
Cancellations must be received in writing by Friday, January 8, 2016 and will be subject to a $50 processing fee. No refunds will be granted after that date. If, for any reason, the course must be cancelled, discontinued, or rescheduled by the Office of Continuing Medical Education, a full refund will be provided.

Enrollment
By Mail
Use the form attached. Mail to the UCLA Office of Continuing Medical Education, David Geffen School of Medicine at UCLA, Clinical Applications of Genome-Wide Testing, 10920 Wilshire Blvd., Ste. 1060, Los Angeles, CA 90024-6512

Online
Go to www.cme.ucla.edu/courses, click on 4th Annual Symposium Clinical Applications of Genome-Wide Testing, and click on the registration button. You may use your MasterCard, VISA, American Express or Discover card to register online.

By Phone
Use your American Express, MasterCard, VISA or Discover card.
Call (310) 794-2620

By FAX
Send the completed enrollment form with credit card information and authorizing signature.
Fax (310) 794-2624

Program Location
NRB Auditorium
Neuroscience Research Building
635 Charles E. Young Drive South
Los Angeles, CA 90095

Directions and Parking
From the 405 freeway, exit on Wilshire Blvd. East. Proceed on Wilshire Blvd. to Westwood Blvd. and make a left. Proceed north on Westwood Blvd., turn right on Charles E. Young Drive South and continue ½ a block. Turn left into Lot 9. There will be an attendant selling permits from 7:30 am-9:30 am. If you arrive outside of this time frame please report to the parking kiosk on Westwood Plaza to pay for your parking permit. Parking is $12.

Accreditation
The Office of Continuing Medical Education, David Geffen School of Medicine at UCLA is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The Office of Continuing Medical Education, David Geffen School of Medicine at UCLA designates this live activity for a maximum of 6 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Disclosure Statement
The FDA has issued a concept paper which classifies commercial support of scientific and educational programs as promotional unless it can be affirmed that the program is “truly independent” and free of commercial influence. In addition to independence, the FDA requires that nonpromotional, commercially supported education be objective, balanced, and scientifically rigorous. The policy further states that all potential conflicts of interest of the CME staff and faculty be fully disclosed to the program’s participants. In addition, Accreditation Council for Continuing Medical Education policy now mandates that the provider adequately manages all identified potential conflicts of interest prior to the program. We at UCLA fully endorse the letter and spirit of these concepts.

Additional Credits
Genetic Counselor CEUs: 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.

This course is approved for 5 CEU for CLS/MLT/CPT.

Additional Information
If you have any questions, please contact the UCLA Office of Continuing Medical Education at 310-794-2620.

Please visit our website for other UCLA CME course offerings: www.cme.ucla.edu

Early registration is recommended, as space is limited.
Mail Application for Enrollment (Please Print)  

Course Title and Number  Registration Fee
Clinical Applications of Genome-Wide Testing   M156-29  $125.00
Genetic Counselors, CLS  $75.00
Fellows/Residents/Students  $35.00

Last four digits of your Social Security Number

Name (First/Middle/Last)  Degree  Male  Female

Preferred Mailing Address

City/State/ZIP  Area Code  Daytime Phone

Specialty  Area Code  Fax

E-mail  PLEASE PRINT

☐ Check enclosed payable to: The Regents of the University of California

Charge: ☐ American Express  ☐ MasterCard  ☐ Visa  ☐ Discover

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Authorizing Signature  Expiration (Mo/Yr)

Mail to: Office of Continuing Medical Education, David Geffen School of Medicine at UCLA, Clinical Applications of Genome-Wide Testing, 10920 Wilshire Blvd., Suite 1060, Los Angeles, CA 90024-6512.