



PERSONALIZED MEDICINE CONFERENCE FOR PHARMACISTS

Saturday, March 4, 2017

Made possible by a generous gift from Jill and Joe Lawrence.



UNC
ESHELMAN
SCHOOL OF PHARMACY



PERSONALIZED MEDICINE CONFERENCE FOR PHARMACISTS

Date:	Saturday, March 4, 2017
Registration:	8:30–9:00AM (continental breakfast provided)
Program:	9:00AM–4:30PM (lunch provided)
Fee:	\$30.00 per person Fee waived for pharmacy students (pre-registration required; proof of student status required at check in)
Location:	MAHEC Mary C. Nesbitt Biltmore Campus 121 Hendersonville Rd. Asheville, NC 28803

Personalized medicine utilizes the genetics of an individual (or in cancer the genetics of a patient's tumor) to predict if the patient is likely to have an adverse drug response or whether the drug may actually be useful to manage the patient's conditions. One of the major gaps in adopting personalized medicine testing to benefit patients is the lack of education and training of pharmacists regarding when and how to utilize results from this testing to guide drug management. Numerous publications have indicated that although physicians and pharmacists expect to use results of personalized medicine testing (pharmacogenetics) in their practice, few are comfortable with their knowledge base of how genetics affects drug response and few are comfortable with interpreting results from pharmacogenetic testing to enhance patient drug management.

This conference is an opportunity to bridge the gap of education, familiarity and experiential learning about use and application of these tests, including practical issues regarding:

- Identifying patients most likely to benefit from testing
- Interpretation of results and application of results to guide drug management decisions (dose and/or choice of drugs)
- Reimbursement of testing
- Integration of testing results into the patient's medical record
- Resources to access to facilitate decision making and clinical application.

AUDIENCE

Pharmacists in all aspects of pharmacy practice

PLENARY SPEAKER



Howard L. McLeod, PharmD
Medical Director
DeBartolo Family Personalized Medicine
Institute
Moffitt Cancer Center
Tampa, FL

An internationally recognized expert in how genetic makeup affects an individual's response to cancer treatment, Dr. McLeod is the founding medical director of the DeBartolo Family Personalized Medicine Institute and a senior member in the Department of Cancer Epidemiology. Dr. McLeod brings his diverse experience and interests to Moffitt, including working in research, clinical pharmacology, and supervising large clinical trials. Dr. McLeod has been instrumental in the establishment of Moffitt's Clinical Genomics Action Committee (CGAC), which implements cancer genomics and other individualized treatments by providing a multidisciplinary assessment of advanced diagnostic strategies and complex clinical results.

SPEAKERS

Gillian C. Bell, PharmD
Clinical Pharmacist
Personalized Medicine Program
Fullerton Genetics Center
Mission Health, Asheville, NC

Lynn G. Dressler, DrPH
Director of Personalized Medicine
Fullerton Genetics Center
and Mission SECU Cancer Center
Mission Health, Asheville, NC

Jai Patel, PharmD
Chief, Pharmacology Research
Levine Cancer Institute
Carolinas Healthcare System, Charlotte, NC

Henry "Mark" Dunnenberger, PharmD
Senior Clinical Specialist-Pharmacogenomics
North Shore University Health System
Evanston, IL

Craig Lee, PharmD, PhD
Associate Professor
UNC Eshelman School of Pharmacy
Division of Pharmacotherapy and
Experimental Therapeutics
Chapel Hill, NC

Tim Wiltshire, PhD
Director, Center for Pharmacogenomics
and Individualized Therapy
Division of Pharmacotherapy and Experimental
Therapeutics
UNC Center for Pharmacogenomics and
Individualized Therapy
Chapel Hill, NC

PANELISTS

Steve Cucchi, RPh
Vice President, Pharmacy | Ingles Market, Inc.
Asheville, NC

Tim Gentilcore, PharmD
Director, Retail Pharmacy | Mission Health
Asheville, NC

Karl Ruch, PharmD, BCPS
Clinical Pharmacist, Peds/NICU Service Line
and Personalized Medicine Program, Mission Health
Asheville, NC

Greene Shepherd, PharmD
Director of Professional Education
Vice Chair, Practice Advancement and Clinical Education
Clinical Professor, UNC Eshelman School of Pharmacy
Chapel Hill, NC

AGENDA WITH OBJECTIVES

Upon completion of this knowledge-based educational event, the participant should be able to achieve the objectives listed beneath each segment.

- 8:30–9:00AM Registration - breakfast provided
- 9:00–9:15AM Welcoming Remarks
Bill Hitch, PharmD, Director of Pharmacotherapy, MAHEC
Assistant Professor of Clinical Education, UNC Eshelman School of Pharmacy
Lynn Dressler, DrPH, Director, Mission Personalized Medicine
Jonathan Bailey, MHA, Chief Vice President of Operations, Mission Health
- 9:15–10:15AM PLENARY: Personalized Medicine and Genomics: What's In It For Pharmacists? (1.0 CE)
Howard L. McLeod, PharmD
Learning Objectives:
1. Describe the arc of genetic and genomic testing to enhance patient care
 2. Describe the current focus of personalized medicine to enhance drug management
 3. Apply fundamental principles of personalized medicine that align with value of care
 4. Apply principles of pharmacogenomics to minimize adverse drug response
- 10:15–11:00AM Pharmacogenetics 101: Why Should I Care? (0.75CE)
Henry "Mark" Dunnenberger, PharmD
Learning Objectives:
1. Define pharmacogenetics and associated terms
 2. List gene/drug pairs with strong evidence related to pharmacogenetics
 3. Describe available resources for pharmacogenetic information
- 11:00–11:45AM Application of Personalized Medicine Testing in Cardiology (0.75CE)
Craig Lee, PharmD
Learning Objectives:
1. Describe mechanisms of action of FDA approved P2Y12 inhibitors
 2. Describe the use of genotyping in the management of cardiovascular disease
 3. Identify the barriers to implementation of a hospital wide strategy for genotype-guided anti-platelet therapy
 4. Describe the clinical data regarding adverse clinical events in clopidogrel responders and non-responders
- 11:45–1:00PM LUNCH - provided
- 1:00 – 1:45PM PANEL DISCUSSION: What It Means to Get Your Genotype of Drug Metabolizing Genes (0.75 CE)
Host: Howard McLeod; Panel members: Tim Gentilcore, Gillian Bell, Karl Ruch, Steve Cucchi, Greene Shepherd, PharmD
Learning Objectives:
1. Summarize the implications of pre-emptive genotyping
 2. Identify available resources to help interpret pharmacogenetic results
 3. Describe how knowledge of pharmacogenetic variants could affect future drug therapy choices
- 1:45 – 2:30PM Mission's Personalized Medicine Program (0.75 CE)
Gillian Bell, PharmD
Learning Objectives:
1. Describe Mission Health's Personalized Medicine Program
 2. Evaluate the challenges and opportunities for providing personalized medicine testing in a community health system
 3. Evaluate the role of the pharmacist in personalized medicine testing and consultation
 4. Evaluate case scenarios from clinical care to highlight opportunities and limitations of personalized medicine testing

- 2:30 – 3:15PM Clinical Application of Pharmacogenetics (PGx): What Can PGx Do? Case Studies in Pharmacy Practice. (0.75 CE)
Moderator: Karl Ruch; Discussants: Henry “Mark” Dunnenberger, Jai Patel, Gillian Bell
Learning Objectives:
1. List genes which may be important for drug selection in the treatment of select disease states
 2. Describe how pharmacogenetic variations can affect a patient’s response to a medication
 3. Interpret and translate specific pharmacogenetic findings into clinical recommendations
- 3:15 – 3:30PM Break
- 3:30 – 4:15PM Panel Discussion: Barriers, Benefits, and Lessons Learned in the Provision of Personalized Medicine Testing (0.75 CE)
Moderator: Lynn Dressler; Panel members: Gillian Bell, Tim Wiltshire, Jai Patel, Howard McLeod, Mark Dunnenberger
Learning Objectives:
1. Describe the challenges/opportunities of implementing and using personalized medicine testing in daily practice
 2. Evaluate the barriers and lessons learned to inform future pharmacy practice
 3. Describe the financial, cultural, social, ethical and legal issues confronting the practice of personalized genomic medicine
- 4:15 – 4:30PM Closing Remarks (0.25 CE)
Lynn G. Dressler, DrPH
Learning Objective:
1. Describe the challenges/opportunities of using personalized medicine testing in clinical care and future applications

CREDITS



The University of North Carolina Eshelman School of Pharmacy is accredited by the Accreditation Council for Pharmacy Education as a provider of continuing pharmacy education.

This program 0046-9999-17-012-L01-P will provide 5.5 contact hours of continuing education credit.

Credit statements can be viewed and printed from CPE Monitor. In order to receive CE credit, attendance must be acknowledged at the registration desk upon arrival at the program. Participants will evaluate this program using a standard evaluation form.

CEUs: MAHEC designates this continuing education activity as meeting the criteria for 0.6 CEUs as established by the National Task Force on the Continuing Education Unit. You must attend the entire workshop to receive CEUs.

5.5 contact hours

COURSE DIRECTOR

Bill Hitch, PharmD, BCPS, CPP
Director of Pharmacotherapy, Mountain Area Health Education Center
Assistant Professor of Clinical Education, UNC Eshelman School of Pharmacy

COMMITTEE

Lynn Dressler, DrPH | Mission Health

Gillian C. Bell, PharmD | Mission Health

Paige Krug | Mission Health

Pearl Abernathy, RN | Mission Health

Wilma Fuentes, AAS | MAHEC

REGISTRATION

Registration fee is \$30.00 and includes administrative costs, educational materials, continental breakfast, and lunch. Fee is waived for pharmacy students, but pre-registration is required. Proof of student status is required at check in.

MAHEC has a pay-up-front policy for all CE programs. The only exceptions will be for pre-approved programs where an individual payment plan is appropriate. Registrations received without accompanying payment will not be processed and participants who have not paid the course fee will not be admitted into the program.

Cancellations received at least two weeks in advance of the program date will receive a full refund unless otherwise noted. Cancellations received between two weeks and up to 48 hours prior to the program date will receive a 70% refund unless otherwise noted. No refunds will be given for cancellations received less than 48 hours prior to the program date. All cancellations must be made in writing (fax, mail, or email). Substitutes can be accommodated in advance of the program.

DIRECTIONS TO MAHEC BILTMORE CAMPUS

121 Hendersonville Rd., Asheville, NC, 28803

From I-40 Eastbound, take Exit 50 and turn left onto Hendersonville Road.

From I-40 Westbound, take Exit 50B and merge onto Hendersonville Road.

At the first light, turn left into the DoubleTree Hotel complex. Turn left and continue up the hill to the MAHEC Biltmore Campus.

From 19-23 (I-26) take 240 East to Exit 5B (Charlotte Street). Exit right onto Charlotte Street. At the 4th light, make a left onto Biltmore Avenue. Proceed through 8 traffic lights. At the 9th light turn right into the DoubleTree Hotel complex. Turn left and continue up the hill to the MAHEC Biltmore Campus.

Have a question?

Contact Lynn Dressler at 828-213-0025 or lynn.dressler@msj.org

Registration Information:	828-257-4475
Fax Registration:	828-257-4768
Online Registration:	www.mahec.net
Email Registration:	registration@mahec.net



Special Services:
828-257-4468

Mail: MAHEC Registration
121 Hendersonville Rd., Asheville, NC 28803

Send completed registration form to:

MAHEC Registration, 121 Hendersonville Rd., Asheville, NC 28803

Fax to 828-257-4768



PERSONALIZED MEDICINE CONFERENCE FOR PHARMACISTS

Saturday, March 4, 2017

Updated contact info

Name _____

Credentials _____

Social Security # **XXX-XX-**____ (last 4 digits required)

Occupation _____

E-mail Address _____

Home Address _____

City _____ State _____ Zip _____

Home County _____

Home # _____ Work # _____

Employer _____

Department _____

Employer's Address _____

City _____ State _____ Zip _____

Work County _____

Program announcements will be sent to your email unless you opt out from receiving emails from MAHEC. We never share our mailing lists.

Please remove my name from the MAHEC mailing list.

#17PH004/50881

Registration Fee: \$30.00 for individuals

Fee waived for pharmacy students. Pre-registration is required and proof of student status is required at check in.

Full payment must accompany all registrations unless a payment plan has been approved in advance. Registrations received without accompanying payment will not be processed.

Check is enclosed (Made payable to MAHEC) Credit card info provided

Visa Mastercard Discover Card American Express

Account # _____

Exp ____ / ____ Code on back of card _____

Name on Card _____

Signature _____