

# PHARMACOGENOMICS

## VIRTUAL SUMMIT SERIES

### Summit 5: Moderator



#### **Henry "Mark" Dunnenberger, PharmD, BCPS**

Dr. Dunnenberger is Director of Personalized Medicine and Pharmacogenomics in the Mark R. Neaman Center for Personalized Medicine at NorthShore University HealthSystem (NorthShore), and leads the various clinical pharmacogenomics implementation projects within the Center. The goal of these projects is to improve the care and health outcomes of NorthShore University HealthSystem patients through pharmacogenomics-based strategies. He joined NorthShore in 2014.

Dr. Dunnenberger leads the Pharmacogenomics Clinic, which serves as part of a system-wide initiative building upon the health system's strong foundation in genetics and molecular medicine. The Clinic is among only a few across the country, and the first of its kind in the Chicagoland area that pre-emptively screens patients for responses to medications based on genetic makeup. His clinical expertise and research interests include translating pharmacogenomics into clinical practice, developing information technology solutions for delivering genetic information to both clinicians and patients in a practical manner, and evaluating methods for educating healthcare professionals about pharmacogenetics

Dr. Dunnenberger has co-authored numerous original publications, including multiple CPIC guidelines. He earned his PharmD from the University of Tennessee Health Science Center College of Pharmacy in 2012. He completed a PGY1 Pharmacy Practice Residency at Mission Hospital in Asheville, North Carolina, and a PGY2 Clinical Pharmacogenetics Residency in the Department of Pharmaceutical Sciences at St. Jude Children's Research Hospital in Memphis, Tennessee.

## Summit 5: **Panelists**

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### **Deepak Voora, MD**

Deepak Voora, MD, is Associate Professor of Medicine at the Center for Applied Genomics & Precision Medicine at Duke University School of Medicine and a staff cardiologist at the Durham Veterans Affairs Medical Center. His research focusses on the discovery and translation of pharmacogenomic biomarkers to address the hypothesis that tailoring drug therapy on the basis of genomic information can improve health outcomes. He has chosen some of the most commonly used medications used worldwide – antiplatelet and statin medications – for his research program. As Director of the VA Pharmacogenomics testing for Veterans (PHASER) program, he is leading the VA's national implementation of pre-emptive, panel-based, pharmacogenetic testing to up to 250,000 Veterans.



### **Marc S. Williams, MD**

Marc S. Williams, MD, FAAP, FACMG, FACMI, is a clinical geneticist. He is professor and director emeritus of Geisinger's Genomic Medicine Institute. He is site PI and leads the EHR workgroup of the NHGRI funded ClinGen project. He is on the NHGRI Genomic Medicine working group. He was a member of the Secretary's Advisory Committee for Genetics, Health and Society. He is a member of the American College of Medical Genetics and Genomics (ACMG) Board of Directors, serving as Vice-President for Clinical Genetics and rejoined the board as president-elect in 2019. He is past chair of the ACMG Committee on the Economics of Genetic Services and founded the ACMG Quality Improvement Special Interest Group. He is a member of the Scientific Advisory Board of the Clinical Pharmacogenetic Implementation Consortium (CPIC) and a member of the CPIC informatics committee. He recently joined the Scientific Advisory Boards of the NIH Undiagnosed Diseases Project, and Online Mendelian Inheritance in Man. He has authored over 200 articles on a variety of topics including the economic evaluation and value of genetic services, implementation of genomic medicine, and the use of informatics to facilitate genomic medicine and precision health.



## **Nephi Walton, MD, MS, FACMG, FAMIA**

Dr. Walton completed his MD and Masters in Biomedical Informatics at the University of Utah School of Medicine. He completed a combined residency in Pediatrics and Genetics at Washington University in St Louis and is boarded in both clinical genetics and clinical informatics. He led several research initiatives in genomics and informatics at Geisinger prior to joining Intermountain Healthcare. At Geisinger he successfully completed a pilot integration of genomics data into the EPIC electronic health record system for both pharmacogenomics and CDC tier one genetic conditions.

He currently serves as the Associate Medical Director of Intermountain Precision Genomics and also serves as the Associate Medical Director of Intermountain's genome sequencing laboratory. He is the Chair of Genomics and Translational Bioinformatics for the American Medical Informatics Association and has presented extensively on integrating genomic information into the medical record and translating the use of genomics into general medical practice. He is currently actively pursuing both of these interests at Intermountain Healthcare where he leads the return of genetic results for the Heredigene population sequencing project, with plans to sequence 500,000 patients and integrate their genetic data into the electronic health record to improve patient care.



## **Kristin Wiisanen, PharmD, FAPhA, FCCP**

Kristin Wiisanen is a Clinical Professor in the Department of Pharmacotherapy and Translational Research at the University of Florida College of Pharmacy. She is the Associate Director of the UF Health Precision Medicine Program, Director of the Graduate Program in Precision Medicine, and Director of Continuing Pharmacy Education. She provides leadership in implementing clinical pharmacogenomics across diverse patient care settings in UF Health and serves as the Pharmacogenomics Residency and Fellowship Program Directors for the College of Pharmacy. Dr. Wiisanen is a fellow of the American Pharmacists Association, the American College of Clinical Pharmacy, and Editor-in-Chief of *Pharmacy Today*.



## **Peter J. Hulick, MD, MMSc, FACMG**

Dr. Hulick is the Medical Director of the Mark R. Neaman Center for Personalized Medicine and Division Head for the Center for Medical Genetics at NorthShore University HealthSystem (NorthShore), which applies genetic analysis to prevention, diagnosis and treatment of inherited diseases and disorders. He joined NorthShore as an attending physician in medical genetics in 2008 and became Division Head of Medical Genetics in 2012.

Dr. Hulick also serves as a Clinical Assistant Professor in the Department of Human Genetics at the University of Chicago Pritzker School of Medicine. He has authored or co-authored more than 40 peer reviewed journal articles. Dr. Hulick earned his medical degree from Jefferson Medical College in 2001. He completed a residency in internal medicine at St. Luke's Hospital - Mayo Clinic, and completed a clinical fellowship in medical genetics at Harvard Medical School. He also earned a master's degree in medical science from Harvard Medical School in 2007.