

# ISONG Webinar

## Pharmacogenomics and Your Clinical Practice



Dennis J. Cheek, PhD, RN, FAHA

Dennis J. Cheek, RN, PhD, FAHA is currently the Abell-Hanger Professor in Gerontological Nursing at Texas Christian University-Harris College of Nursing and Health Sciences with a joint appointment in the School of Nurse Anesthesia. He received his Bachelor of Science in Nursing from California State University, Fresno and his Masters of Science in Nursing from the University of California, San Francisco with a focus in Critical Care Nursing and Education. He received his Doctor of Philosophy in Cellular & Molecular Pharmacology and Physiology from the University of Nevada, Reno and was awarded a Nevada AHA Affiliate Post-Doctoral Fellowship to continue his research. His teaching responsibilities include undergraduate pharmacology, graduate pathophysiology and pharmacology, nurse anesthesia pharmacology and cardiovascular physiology as well as one the core courses' in the Doctoral of Nursing Practice program at TCU. Along with his teaching responsibilities, he is continuing his program of research in the newly renovated Nursing Research Laboratory studying the effects of age on endothelial cells. Dennis has been a member of the Council on Cardiovascular Nursing since 2000 and was inducted as a Fellow of the American Heart Association (FAHA). He has published in numerous journals including American Journal of Critical Care, American Association of Critical Care Nurses Clinical Issues, American Association of Nurse Anesthetist , American Journal of Physiology: Heart and Circulatory, Biological Research in Nursing, Circulation Research, Critical Care Nurse, Heart & Lung, Journal of Emergency Nursing, Journal of Nursing Scholarship, Proceedings of the National Academy of Sciences in the United States and The Journal of Cardiovascular Nursing.

### Description

Genomics is a central science for all advanced practice nurses due to the fact that many diseases and conditions have a genetic or genomic component. In the imminent future, all health care will increasingly include genetic and genomic information including pathways of prevention, screening, diagnostics, pharmacology, selection of treatment, and monitoring of treatment effectiveness. This webinar will examine the advances in pharmacogenomics, which is the study of genetic/genomic variation and how these variation influence drug therapy.

### Target Audience

Personalized medicine has arrived and this webinar is designed to provide the clinical nurse with the latest information on pharmacogenomics in their clinical practice. The webinar will also provide the advanced practice additional information on additional pharmacogenomics information for prescribing and monitoring of drug therapy.

### Objectives

1. Explain the difference between genetics and genomics.
2. Discuss the clinical importance of pharmacogenomics in the clinical setting.

3. Discuss the role of the healthcare provider with regard to pharmacogenomics data and patient management.

*This learning activity has been developed in collaboration with the University of Pittsburgh School of Nursing.*

*Participants successfully completing this activity will be awarded one (1) continuing nursing education contact hour.*

*The University of Pittsburgh School of Nursing is accredited as a provider of continuing nursing education by the American Nurses Credentialing Center's Commission on Accreditation*