



2nd Annual Cone Health Research Forum: Nanoscience & Health (#48238)

Jointly provided by Greensboro AHEC, Cone Health and The University of North Carolina Eshelman School of Pharmacy

Event #: 48238

Thursday, March 17, 2016

ACPE# 0046-9999-16-040-L01 (Pharmacist Session)

8:00 a.m. – 4:30 p.m. (Check-in at 7:30 a.m.)

6.5 contact hours

Faculty: Please see below with agenda

Program Description:

The future of health care will become increasingly focused on evidence-based practice as a critical foundation to providing quality and cost-effective care. The significance of academic and clinical collaboration and partnerships, that support trends in interprofessional health care improvement processes, is more important than ever to gaining sustainability in the economic climate of health care reform.

The inaugural Cone Health Research Forum will provide a knowledge-based approach to learning about a variety of scientific research domains, collaborative approaches and regulatory processes. Educational topics will provide underlying principles of innovation and integration to permeate community engagement that will support enhancement of health care delivery.

Pharmacist Learning Objectives:

- Discuss the prevalence, risk factors, management, financial costs, and clinical burden of AF, and highlight some of the current studies designed to evaluate and treat atrial fibrillation.
- Review important national/international clinical trials in progress locally and explain their relevance and potential benefit to the community and extended body of oncology treatment research.
- Examine the most recent outcomes for fullerene biological applications and identify how nanoscience research is developing potential uses for the knowledge outcomes.
- Discuss how multi-drug bacterial resistance trends have grown to create an increased public health risk and how the role silver nanoparticles have shown to impact this resistance, along with the role nanoscience research is contributing for new knowledge development to identify improved infection management.

- Describe biomimicry nanoscience research, which analyzes and imitates the models, systems, and elements of nature for the purpose of solving complex human problems, and discuss how biomimetics has given rise to new technologies inspired by biological solutions at macro and nanoscales that could lead to development of a new generation of nanostructured antibacterial materials.
- Review the concepts of genomic complexity and "hidden genes" and how these phenomena can contribute to clinical observations, such as the role of selenium and other nutritional factors in viral pathogenesis."
- Discuss recent advances in the number and types of medications available to treat Hepatitis C, in order to provide doctors more options for clinical management decision-making that can shorten treatment duration, improve patient drug tolerance and provide more effective outcomes improvements for limiting chronic illness duration.
- Explore the mechanisms for how a pre-exposure prophylaxis (or PrEP) intervention approach supports HIV patients, and review theoretical resistance and risk management variables for administering daily HIV medications to lower HIV patients' risk factors for infection complications and the ethical implications of the PrEP application.
- Summarize and clarify clinical and nanoscience research issues identified in the conference presentations and discussions.

Agenda:

- 8:00-8:15 **Announcements, Greensboro AHEC**
Welcome, Charles Wilson, MD
- 8:15-8:45 **Cardiovascular Research Opportunities for Atrial Fibrillation-** James Allred, MD,
Cone Health Medical Group HeartCare
- 8:45-9:30 **Oncology Research Trial Updates for the Triad** – James Granfortuna, MD,
Internal Medicine Clinic, Cone Health
- 9:30-10:15 **Pharmaceutical Applications of Fullerene Derivative** – Christopher Kepley, PhD (JSNN)
- 10:15-10:30 **Break**
- 10:30-11:15 **Bacterial Resistance to Silver Nanoparticles** – Joseph Graves, Jr., PhD (JSNN)
- 11:15–12:00 **Biomimicry and Mechanical Antimicrobials** – Dennis Lajeunesse, PhD (JSNN)
- 12:00-1:15 **Lunch/Joint School of Nanoscience & Nanoengineering (JSNN) Tours**
- 1:15-2:00 **Biological Dark Matter and Nutritional Genomics Offer New Approaches to Infectious Disease: *The Role of Selenium in Ebola and HIV/AIDS as a Paradigm*** –
Ethan Will Taylor, Ph.D. (JSNN)
- 2:00-2:45 **The Rapidly Changing Field of Hepatitis C Treatment: *Will We Get to Eradication?***
Robert Comer, MD, Cone Health Regional Center for Infectious Disease
- 2:45-3:00 **Break**
- 3:00-4:00 **HIV Prevention Trials Network Study: *Pre-exposure Prophylaxis in High Risk Patients***
Cornelius Van Dam, MD, Cone Health Regional Center for Infectious Disease
- 4:00-4:30 **Research Forum Panel Discussion** – Faculty Speakers from Program Agenda

Location:

(JSNN) Joint School of Nanoscience & Nanoengineering, Greensboro, NC

Target Audience:

This conference will be targeted towards primary care physicians, nurses, school nurses, pharmacists, respiratory therapists, nurse practitioners, public health professionals, and other interested healthcare professionals that care for allergy, asthma and pulmonary patients.

Continuing Education Credit for Pharmacists:

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. The knowledge-based program, 2nd Annual Cone Health Research Forum: Nanoscience & Health, ACPE #0046-9999-16-040-L01-P, will provide 6.5 hours of continuing pharmacy education credit. To receive ACPE credit, attendance must be acknowledged by completing the online evaluation. Statements of ACPE credit can be viewed and printed from CPE monitor on NABP.net. No partial credit will be given

Pharmacy Coordinator:

Peter Koval, PharmD
Director of Pharmacy
Greensboro AHEC

Fees:

\$115 Registration Fee

Americans with Disability Act:

It is the policy of the Greensboro AHEC not to discriminate against any person on the basis of disabilities. If you need service or auxiliary aids mentioned in the Act in order to participate fully, please call us at 336-832-8025 at least three (3) weeks in advance of the program.