

*The Chancellor's Faculty Excellence Program Faculty Cluster on Personalized Medicine Discovery at NC State University presents a special public lecture:*

## **The MURDOCK Study and Baseline Project: Thinking Big (Data) in the Era of Precision Medicine**

**L. Kristin Newby, MD, MHS**

Professor of Medicine, Division of Cardiology  
Duke University Medical Center

Wednesday, March 30, 2016  
4:30 pm – 5:30 pm  
2203 SAS Hall, NC State Campus

The era of “precision medicine” is upon us. Longitudinal population health studies collecting vast amounts of detailed data and biological specimens from tens of thousands participants, and advances in statistical and computational “Big Data” approaches and molecular technology to collect, store, analyze, and interpret the data, hold the promise to foster development of personalized treatments and disease prevention strategies and to revolutionize the practice of medicine. Dr. Newby is one of the lead researchers on two important such studies taking place right here in North Carolina: [The MURDOCK Study](#), which is gathering data and samples from over 11,000 volunteers in Cabarrus County and Kannapolis; and the 10,000 person [Baseline Study](#), a collaboration between Duke University, Stanford University, and [Verily](#) (formerly Google Life Sciences). Dr. Newby will describe these studies and give us an “insider’s” perspective on what it is like to lead such a massive effort and the new insights she and her fellow researchers are uncovering toward the goal of personalizing medicine to the individual patient.

*The lecture will be followed by a student poster session and reception in the 2<sup>nd</sup> floor Atrium of SAS Hall.*

*Speaker Bio:* Dr. Newby is Professor of Medicine in the Division of Cardiology and Co-Director of the Cardiac Care Unit at Duke University Hospital and an internationally known researcher in cardiovascular medicine. At the Duke Clinical Research Institute, she has been engaged for many years in cardiovascular clinical trials, and she leads the translational population research efforts at Duke Translational Research Institute. Dr. Newby is co-principal investigator of the MURDOCK Study and the lead investigator at Duke for the Baseline Study. She is author of over 300 publications and a member of the editorial boards of the *Journal of the American Heart Association* and *American Heart Journal*. Dr. Newby’s [opinion piece on precision medicine](#) appeared on the February 20, 2015 Op-Ed page of the Raleigh News & Observer.