



The Center for Theoretical Biological Physics

PRESENTS
Seminar Speaker

Dr. Thomas Yankeelov

Associate Professor
Director of Cancer Imaging Research
Center for Quantitative Sciences
School of Medicine
Vanderbilt University

**“Quantitative, in vivo Imaging to Drive Predictive
Models of Tumor Growth”**

Tuesday, April 22, 2014

12:30 - 1:30 PM

BRC, 10th Floor, Room 1060 A/B

Abstract: In this presentation, we will discuss ongoing efforts at developing and applying advanced imaging technologies in order to predict, early in the course of therapy, the eventual response of individual patients to anti-cancer treatments. We will then describe how these data can be used to initialize and constrain predictive biophysical and biomathematical models of tumor growth and treatment response.

Bio: Thomas Yankeelov, Ph.D., is an Ingram Associate Professor of Cancer Research, and an Associate Professor of Radiology and Radiological Sciences, Physics and Astronomy, Biomedical Engineering, and Cancer Biology. He serves as Director of Cancer Imaging Research for both the Vanderbilt University Institute of Imaging Science and the Vanderbilt-Ingram Cancer Center, where he is also the Co-Leader of the Host-Tumor Interactions Research Program. He received an M.A. in Applied Mathematics and an M.S. in Physics from Indiana University in 1998 and 2000, respectively. His doctorate is in Biomedical Engineering from SUNY at Stony Brook, where he completed his dissertation at Brookhaven National Laboratory in 2003. His research program focuses on the development and application of in vivo imaging methods for predicting treatment response in cancer and extends from mathematical modeling, to applications in pre-clinical models, to implementation in human studies.