**Big Data and Artificial Intelligence in ECOG-ACRIN: Directions for Cancer Research**

Thursday, October 24, 2019

12:00 PM – 3:30 PM

Marriott Harbor Beach Resort and Spa

Room: Grand Ballroom E & F (3rd Floor)

12:00 PM Introduction and Welcome Peter O’Dwyer, MD  
 *ECOG-ACRIN, University of Pennsylvania*

Dr. Robert Comis: A Few Words from Warren Kibbe, PhD (Video Presentation)  
 Colleague and Friend Dr. Warren Kibbe *Duke Cancer Institute*

**BIG DATA AND ARTIFICIAL INTELLIGENCE – THE FIELD**

12:10 PM AI in Health Care Research: Tommaso Mansi, PhD  
 Implementation and Opportunity *Siemens Medical Solutions USA, Inc.*

12:25 PM Rethinking Risk Models with AI Regina Barzilay, PhD (Video Presentation)  
 *Massachusetts Institute of Technology*

12:40 PM Learning to Predict Cancer Risk Adam Yala, PhD Candidate  
 *Massachusetts Institute of Technology*

12:50 PM UK Biobank: A Visionary Resource for Naomi Allen, BSc, MSc, DPhil  
 Cancer Research in the 21st Century *UK Biobank*

**THE TOOLBOX**

1:10 PM The Data, Informatics, and How Lawrence Shulman, MD  
 These Relate to Medicine *University of Pennsylvania*

1:25 PM Studying Drug Resistance in Cancer Gad Getz, PhD  
 *Massachusetts Institute of Technology*

***1:40 PM BREAK***

2:00 PM AI in Pathology Diagnosis Stanley Hamilton, MD  
 *MD Anderson Cancer Center*

2:15 PM Pathology Big Data – Pathomics Joel Saltz, MD, PhD  
 / Radiomics *Stony Brook University*

**ECOG-ACRIN AREAS OF FOCUS**

2:30 PM Practical Applications of Genome– Keith Flaherty, MD  
 Immune Environment Nexus *Massachusetts General Hospital*

2:45 PM Generating Evidence from the Real World Neal Meropol, MD  
 *Flatiron Health*

3:00 PM Image-Based Phenotyping – National Matthew Schabath, PhD  
 Lung Screening Trial As Example *Moffit Cancer Center*

3:15 PM Leveraging Multiple Data Sources Mitchell Schnall, MD, PhD  
 to Enhance Clinical Cancer Research *ECOG-ACRIN, University of Pennsylvania*