

Big Data Training for Cancer Research

Special Lecture Series

Understanding the Trajectory of Cancer Through Data: the Human Tumor Atlas Network as a Lens into Premalignant Cancer to Metastasis

Dr. Warren A. Kibbe

June 19, 2020, 1:00 – 2:30 PM (EST)

Abstract:

Cancer is a complex set of diseases with many different etiologies. I will describe some of the work in the NCI Cancer Moonshot-funded Human Tumor Atlas Network (HTAN) to build a picture of early stage disease through imaging of tumor morphology, single cell techniques, and integration of DNA, RNA and protein data to understand some of the changes that give rise to cancer. I will also discuss the importance of clear annotations, standard protocols for collection, banking and measurement of specimens to an activity like HTAN. See <https://doi.org/10.1016/j.cell.2020.03.053> for the initial HTAN paper.

Series Schedule:

June 8: Dr. Timothy Ratliff – Purdue University
 June 9: Dr. Peter Kraft – Harvard University
 June 12: Dr. Sean Davis – The National Cancer Institute
 June 15: Dr. Daniel Raftery – University of Washington
 June 16: Dr. Constantine Gatsonis – Brown University
 June 18: Dr. Mark Kelley – Indiana University
 June 19: Dr. Warren Kibbe – Duke University

Register for other lectures: www.purdue.edu/bigcare



Speaker Bio:

Warren A. Kibbe, PhD is the Chief Data Officer for the Duke Cancer Institute and the Vice Chair of the Department of Biostatistics and Bioinformatics in the Duke School of Medicine. Prior to joining Duke, he served as an acting deputy director of the NCI and was the director of the NCI's Center for Biomedical Informatics and Information. As a recognized national leader in cancer informatics and data sharing, Dr. Kibbe has been instrumental in efforts to speed scientific discovery and facilitate translational research by using IT, informatics and data science to address complex research challenges. Dr. Kibbe has been a proponent for open science and open data in biomedical research, and helped define the data sharing policy for the NCI Cancer Moonshot program. Dr. Kibbe is also co-Founder of the Cancer Informatics for Cancer Centers (<http://Ci4CC.org>) society, and through Ci4CC organized twice-yearly meetings of cancer informatics faculty and leaders from the majority of NCI-designated Cancer Centers.

Register at: https://us02web.zoom.us/webinar/register/WN_dyJnhj2iTC6dsnzMwjMlrw