

UCLA

B I O S T A T I S T I C S S E M I N A R

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RISK PREDICTION AND SUBGROUP ANALYSIS FOR CANCER STUDIES

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Wednesday, November 30, 2016

3:30pm - 4:30pm, Dentistry 13-041

Refreshments served at 3:00 PM in room 51-254 CHS

ABSTRACT:

In this talk, I will discuss two projects on early detection and prognosis of cancer. In the first work, I will introduce a class of time-dependent characteristic curves based methods to (i) evaluate the risk prediction ability of individual biomarkers/risk factors; and (ii) construct a score system that combines the useful biomarkers with other baseline information. Second, I will discuss an ongoing work on identifying patient subgroups and detecting differential covariate effects across subgroups. For both projects, I will discuss theoretical properties and the application to hepatocellular carcinoma (HCC) studies.