BOSTON UNIVERSITY STATISTICS AND PROBABILITY SEMINAR SERIES

Imaging based biomarkers

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Thursday, November 29, 2007, 4:00-5:00pm

Mathematics and Computer Science (MCS) Building, Room 149

111 Cummington Street, Boston

Tea and Cookies at 3:30pm in MCS 153

Abstract:

The potential utility of quantitative imaging results as markers for response to therapy and disease progression has recently attracted significant attention. A growing body of evidence suggests that quantitative measurements obtained by imaging modalities such as Positron Emission Tomography and Dynamic-Contrast MRI can be used to predict the likelihood of response to therapy and subsequent patient outcomes. Imaging findings, alone and in combination with other markers, may then be used to make decisions about the type and course of therapy, to assess response to therapy, and to monitor patients for potential relapse. In this presentation we will discuss the statistical aspects of studies designed to evaluate the role of quantitative imaging for clinical decision making and disease management as well as for defining intermediate endpoints in clinical trials of therapy.

For directions and maps, please see *http://math.bu.edu/research/statistics/statseminar.html.*