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Statistical Issues in Disease Diagnosis Using Public Gene Expression Data

MONDAY, March 5, 2012, at 4:00 PM  
133 Eckhart Hall, 5734 S. University Avenue  
Refreshments following the seminar in Eckhart 110.

ABSTRACT

The rapid accumulation of gene expression data has offered unprecedented opportunities to study human diseases. In this talk, I will discuss some statistical issues involved in performing a computational disease diagnosis using public gene expression data. The problem of disease diagnosis can be formulated as a hierarchical multi-label classification (HMC) question. Immediate challenges include building classifiers and given classifiers, making effective classification decisions for multiple classes. Some our recent relevant studies will be presented.