



The University of Chicago  
Department of Statistics  
STATISTICS COLLOQUIUM

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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 of our recent relevant studies will be presented.

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For further information and inquiries about building access for persons with disabilities, please contact Dan Moreau at 773.702.8333 or send him an email at [dmoreau@galton.uchicago.edu](mailto:dmoreau@galton.uchicago.edu). If you wish to subscribe to our email list, please visit the following website:  
<https://lists.uchicago.edu/web/arc/statseminars>.