MINI-WORKSHOP ANNOUNCEMENT
Department of Statistics

Assessment of Goodness of Fit of Models for Block Haplotype Structure

by

Maoxia Zheng
Department of Statistics, University of Chicago

Wednesday, November 19, 2003, 3:30 pm in Eckhart 110
5734 S. University Avenue

ABSTRACT

Our ultimate interest is in formalization of models for high-resolution haplotype structure in such a way that they can be useful in statistical methods for linkage disequilibrium (LD) mapping. Some steps in that direction have been taken by Daly et al. (2001) who describe a block structure of haplotypes. We are working on the same dataset which includes 129 trios where the offspring is affected with Crohn disease and there are 103 SNPs on a 500-kb region. We are trying to fit a class of Markov models to the background LD where the time index is each block. And we proposed a Monte Carlo procedure to assess the goodness-of-fit of models. An idea for mapping using high-resolution haplotype structure will also be introduced.