

Statistics Seminar

Topic: Issues & Challenges in genetic analysis of complex disorders

Speaker: Dr. Hemant K Tiwari
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Abstract:

The vast advances in molecular genetics over the last decade have opened new avenues to further explore the molecular basis of complex traits. The improvements in high-throughput genotyping techniques and accumulation of case-control or family-based data sets have allowed genome-wide screenings to identify genes associated/linked to disease susceptibility. The use of bi-allelic single nucleotide polymorphisms (SNPs) as markers for association/linkage studies has become more common due to their availability and high frequency throughout the genome. With the advent of new technology, it is possible to genotype about 1.6 million SNPs on whole genome on each individual using Illumina chip technology. However, this creates a new set of problems and challenges to analyze the data. In this talk, we will discuss issues and challenges those arise in analyzing the multidimensional data.

Date: FRIDAY, APRIL 1, 2005

Time: 11 AM

Location: Hume 331

ALL ARE WELCOME.

Tea/coffee/snacks will be served at 10.45 AM in the faculty lounge.