

Complex Diseases in Admixed Populations

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Abstract: An admixed population arises when mating occurs between individuals from reproductively isolated ancestral populations. Case-control association designs in admixed populations are vulnerable to confounding due to population stratification. On the other hand, recent admixture creates extensive linkage disequilibrium, which may be exploited in mapping disease susceptibility loci. In this talk, I will describe the challenges and opportunities in performing case-control association studies in admixed populations. Recent developments in statistical methods will be reviewed. I will then present some new tools that we have developed in the context of a real data analysis.