

**Multi-IC Symposium on Application of Genomic Technologies to
Population-Based Studies**

June 5-6, 2006
Bethesda Marriott

ISSUES FOR CONSIDERATION

Panel 5: Prioritizing studies for whole genome association genotyping

- a. Determining that a WGA study is appropriate for a given disease/disorder
- b. Determining that a replication study should be initiated, how large that study needs to be, and what special circumstances might obtain for relatively rare diseases where collecting thousands of cases might be problematic
- c. Dealing with the need for diversity in population genetic and environmental backgrounds in WGA studies
- d. Determining what might be appropriate studies to follow up on WGA findings
- e. Criteria for assuring that DNA collection is appropriate, proper human subjects protection has been observed, and that the quality of the DNA samples is appropriate to support genotype analysis
- f. Dealing with studies where DNA samples, or genotype data, are pooled from different studies; assuring that the phenotypic criteria are similar enough to allow pooling
- g. Determining that there is sufficient power to detect an association?
- h. Pooling DNA samples before genotyping to reduce the number of genotype assays that needs to be done