

# Population Genomics Lecture

## April 2, 2003

### Selected References:

#### **Single Nucleotide Polymorphisms Discovery and Mapping**

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- Wang, G, *et al.* (1998) Large scale identification, mapping and genotyping of single nucleotide polymorphism in the human genome. *Science* **280**: 1077-1082.
- Fan, JB *et al.* (2000) Parallel genotyping of human SNPs using generic high-density oligonucleotide arrays. *Genome Research* **10**: 853-860.
- Shagin, D, *et al.* (2002) A novel method for SNP detection using a new duplex-specific nuclease from crab hepatopancreas. *Genome Research* **12**: 1935-1942.
- Stickney, N, *et al.* (2002) Rapid mapping of zebrafish mutations with SNPs and oligonucleotide microarrays. *Genome Research* **12**: 1929-1934.
- The International SNP Map Working Group (2001) A map of human genome sequence variation containing 1.42 million single nucleotide polymorphisms. *Nature* **409**: 928-933.

**A useful list of databases and courseware for SNPS can be found at:**

[http://home.attbi.com/~natgoodman/SNP\\_Web\\_Sites.htm#\\_Lists\\_of\\_Lists](http://home.attbi.com/~natgoodman/SNP_Web_Sites.htm#_Lists_of_Lists)

#### **Haplotype Inference**

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### **Genomic Population Structure**

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Glaubitz, JC, OE Rhodes, and JA Dewoody. 2003 Prospects for inferring pairwise relationships with single nucleotide polymorphisms. *Molecular Ecology* **12**: 1039-1047.

Ingman, M, *et al.* (2000) Mitochondrial genome variation and the origin of modern humans. *Nature* **408**: 708-713.

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reconstruction from population data. *Am. J. Hum. Genet.* **68**: 978-989.

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### **Genomics and Linkage Disequilibrium, Hitchhiking**

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Schlotterer, C. (2003) Hitchhiking mapping – functional genomics from the population genetics perspective *Trends in Genetics* **19**: 32-38.

### **More or Less “Classic” and Useful Population Genetics**

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### **Pharmacogenomics**

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