



Genotypes, Phenotypes and Hardy Weinberg Equilibrium

Biostatistics 666

Lecture II



Previously: Refresher on Genetics

- DNA sequence
 - Human Genome
- Inheritance of genetic information
- Sequence variation
 - VNTRs, microsatellites and SNPs

- Common Types of Genetic Study



Gregor Johann Mendel

- Discovered basic principles of genetics
 - “The Father of Genetics”
 - Monk, lived 1822 – 1884
- Crosses between strains of peas
 - Garden pea (*Pisum sativum*)
 - Each strain has particular characters
 - Height, flower color, seed shape ...