Population genetics

- Study of genetic variation within and between groups of individuals
- Used to identify microevolutionary patterns of human variation
 - Human health
 - Reconstruct histories
 - Evolutionary forces
 - Mutation
 - Gentic drift
 - Gene flow
 - Natural selection

Polymorphic: when 2 or more distinct phenotypes (genetic or anatomical level) exist within a population

Why are polymorphism maintained in different populations

- Majority of native Americans have type O blood
 - Genetic drift= founders effects (small population that left northern Asia and settled in the Americas)
 - Natural selection (exposure to infectious disease)
- Lactose sugar and mean carbohydrates
- Lactase enzyme important for metabolism of lactose
- Lactose tolerance rates in vary populations
 - Highest population with a long history of farming and using milk products associated with dominate allele

Balanced polymorphism- stable polymorphism in a population in which NS prevents any of the alternative phenotypes from becoming fixed or lost

- Heterozygous advantage
- High frequency of sickle cell trait in some populations with endemic malaria
 - Heterozygous higher RS than homozygotes, more resistant to developing malaria
 - Homozygous for sickle cell shortens life span
 - Homozygous for non- sickle cell malaria

Similar situation with Tay Sachs disease and Cysticfibrosis and tuberculosis

Population Genetics Study Guide And Questions

William K. Purves, Edward
Dzialowski, Lindsay Goodloe, Betty
McGuire, Nancy Guild, Paula Mabee

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