

## 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
      - Genetic 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

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