

## 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

**D Keegan**



## **Population Genetics Study Guide And Questions:**

## Decoding **Population Genetics Study Guide And Questions**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Population Genetics Study Guide And Questions**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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