

FRST302: Forest Genetics

Lecture 1.1: Classical Genetics and its Molecular Mechanisms

What are the major genetic questions in biology?



Outline for Today

- Basic definitions in genetics
- Principles and terms in classical genetics
- Molecular mechanisms of classical genetics
- Recombination and its significance

What is genetics?

What is genetics?

Genetics is the study of genes, of variation and heredity across all branches of the tree of life

History of Genetics

Humans have probably pondered inheritance for all history:

- The Ancient Greeks considered Male and Female



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¹https://en.wikipedia.org/wiki/History_of_genetics