



# Chromosome Theory of Inheritance



# Chromosome Theory

- ***Today's understanding:***  
Genes, which determine genetic traits, are located on chromosomes
- ***Historical Evidence:***
  - Sutton
  - Morgan
  - Bridges

# X - Linked Traits

## HUMAN EXAMPLE

### *Autosomal Inheritance*

- Genes for these traits on #1 → 22
- Both ♂ & ♀ have two genes for every trait

### *X-linked Inheritance*

- **X- Linked trait** – traits whose gene is located on the “X” chromosome, therefore
  - Females (XX) have two genes
  - Males (XY) only have one.....