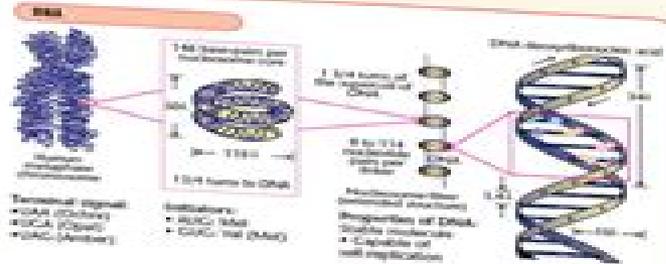


# College Genetics

## GENETIC BASICS

- Genetics is concerned with heredity and variation
- all living things are products of both nature and nurture; the heredity unit (gene) provides an organism with its nature (that is, biological potential and limitations), while environment provides nurture components
- Interaction of nature and nurture provides organisms with distinct anatomical, physiological, biochemical, and behavioral characteristics
- Genes reside in a long molecule called deoxyribonucleic acid (DNA); along with histones, DNA forms nucleosomes that organize into structures with distinctive staining properties called chromosomes found in cell's nucleus
- Carry (C) lines used to express activity of radioactive substance
  - 1 Ci = 1000 mCi =  $3.7 \times 10^{10}$  disintegrations/second
  - 1 becquerel = 1 disintegration/second =  $2.7 \times 10^{-11}$  mCi
  - 1 mCi =  $3.7 \times 10^7$  becquerels



## GENETIC CODE

| First Letter | Second Letter            |                          |                          |                          |                          |                          |
|--------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|              | G                        | C                        | A                        | G                        | C                        |                          |
| G            | GUU<br>GUC<br>GUA<br>GUG | GUU<br>GUC<br>GCA<br>GUG | GUU<br>GUC<br>GUA<br>GUG | GUU<br>GUC<br>GUA<br>GUG | GUU<br>GUC<br>GUA<br>GUG | GUU<br>GUC<br>GUA<br>GUG |
|              | GUU<br>GUC<br>GUA<br>GUG | GUU<br>GUC<br>GCA<br>GUG | GUU<br>GUC<br>GUA<br>GUG | GUU<br>GUC<br>GUA<br>GUG | GUU<br>GUC<br>GUA<br>GUG | GUU<br>GUC<br>GUA<br>GUG |
|              | GUU<br>GUC<br>GUA<br>GUG | GUU<br>GUC<br>GCA<br>GUG | GUU<br>GUC<br>GUA<br>GUG | GUU<br>GUC<br>GUA<br>GUG | GUU<br>GUC<br>GUA<br>GUG | GUU<br>GUC<br>GUA<br>GUG |
| A            | AUU<br>AUC<br>AUA<br>AUG | AUU<br>AUC<br>AUA<br>AUG | AUU<br>AUC<br>AUA<br>AUG | AUU<br>AUC<br>AUA<br>AUG | AUU<br>AUC<br>AUA<br>AUG | AUU<br>AUC<br>AUA<br>AUG |
|              | AUU<br>AUC<br>AUA<br>AUG | AUU<br>AUC<br>AUA<br>AUG | AUU<br>AUC<br>AUA<br>AUG | AUU<br>AUC<br>AUA<br>AUG | AUU<br>AUC<br>AUA<br>AUG | AUU<br>AUC<br>AUA<br>AUG |
|              | AUU<br>AUC<br>AUA<br>AUG | AUU<br>AUC<br>AUA<br>AUG | AUU<br>AUC<br>AUA<br>AUG | AUU<br>AUC<br>AUA<br>AUG | AUU<br>AUC<br>AUA<br>AUG | AUU<br>AUC<br>AUA<br>AUG |
| C            | CUU<br>CUC<br>CUA<br>CUG | CUU<br>CUC<br>CUA<br>CUG | CUU<br>CUC<br>CUA<br>CUG | CUU<br>CUC<br>CUA<br>CUG | CUU<br>CUC<br>CUA<br>CUG | CUU<br>CUC<br>CUA<br>CUG |
|              | CUU<br>CUC<br>CUA<br>CUG | CUU<br>CUC<br>CUA<br>CUG | CUU<br>CUC<br>CUA<br>CUG | CUU<br>CUC<br>CUA<br>CUG | CUU<br>CUC<br>CUA<br>CUG | CUU<br>CUC<br>CUA<br>CUG |
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## UNITS OF MASS

- Molecular weight (mw) is measured in daltons; 1 dalton = mass of hydrogen molecule =  $1.67 \times 10^{-24}$  g
- Average molecular weight of 1 nucleotide pair = 66 daltons
- DNA units = kilobase (kb) =  $1 \times 10^3$  bases
- 1.9 kb DNA = coding capacity for 333 amino acids = 37,600 dalton proteins
- 10,000 dalton proteins = 275 base pair (bp) DNA
- 30,000 dalton proteins = 1.35 kilobase (kb) DNA
- MW of a double-stranded DNA molecule = number of base pairs = (500-dalton/ base pair)
- Mass of a double-stranded DNA molecule =  $2 \times$  (grams of DNA)/(MW dalton)

## NUCLEIC ACID DATA

- 1  $\mu$ g of 1000 bp DNA = 1.52 pmol =  $9.1 \times 10^{11}$  molecules
  - 1  $\mu$ g of pBR322 DNA (4361 bp) = 0.35 pmol =  $2.1 \times 10^{11}$  molecules
  - 1 mg of  $\lambda$  DNA (48502 bp) = 0.85 pmol =  $5.1 \times 10^{11}$  molecules
  - 1 pmol of 1000 bp DNA = 0.66  $\mu$ g
  - 1 pmol of pBR322 DNA (4361 bp) = 2.88  $\mu$ g
  - 1 pmol of  $\lambda$  DNA (48502 bp) = 12.00  $\mu$ g
- Notes:** There are  $3 \times 10^9$  bp in human genome = 33% of human genome is repetitive DNA sequence; 40% is unique human chromosome number (diploid) is 46 (23 pairs)

## ISOTOPE DATA

| Isotope         | Particle emitted | Half-life   |
|-----------------|------------------|-------------|
| $^{14}\text{C}$ | $\beta$          | 5,730 years |
| $^3\text{H}$    | $\beta$          | 12.3 years  |
| $^{32}\text{P}$ | $\gamma$         | 40 days     |
| $^{32}\text{S}$ | $\beta$          | 14.2 days   |
| $^{35}\text{S}$ | $\beta$          | 25 days     |

## ORGANISM

|           |                 |
|-----------|-----------------|
| Earth     | Cell            |
| Continent | Cell nucleus    |
| State     | Chromosomes     |
| City      | Chromosomal DNA |
| Address   | Gene segment    |

## MEASURING DISTANCE

- Genetic distances are expressed in either kb, mb, or cM (centimorgan)
- 1 cM equals one megabase (Mb) of DNA
- 1 cM that is 1 cM apart shows 1% recombination
- Lengths:
  - 1 angstrom ( $\text{\AA}$ ) = diameter of H nucleus = 0.1 nm
  - 1 micrometer ( $\mu\text{m}$ ) =  $10^3 \text{ \AA}$  =  $10^{-6}$  mm
  - 1 micron/ micrometer ( $\mu\text{m}$ ) =  $10^{-4}$  mm
  - 1 mm = 1000  $\mu\text{m}$

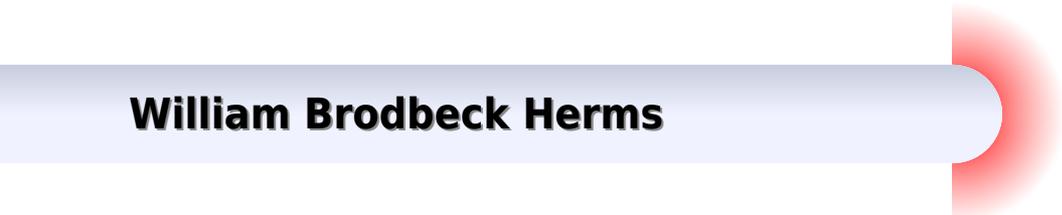
## POPULATION GENETICS (HARDY-WEINBERG LAW)

- The population is infinitely large and mates at random
- No selection is operative; therefore, there is no differential mortality nor differential reproduction
- The population is closed; no immigration or emigration
- 50% matings from one allele state to another; evolution is normal so change is only factor operative in gametogenesis

**Equilibrium Proportions:**  
Frequencies of dominant allele A and recessive allele a among 100 and sperm are p and q ( $p + q = 1$ )

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**William Brodbeck Herms**



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