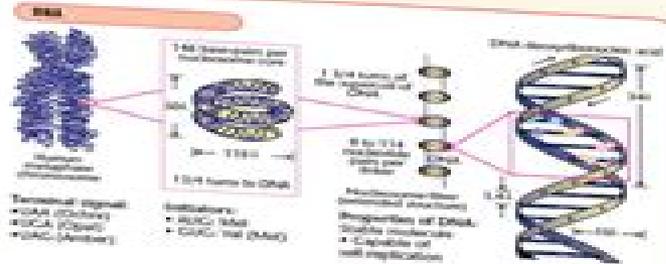


# College Genetics

## 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	A
U	UUU: Phenylalanine	UCU: Serine	UAU: Tyrosine	UGU: Cysteine	UUA: Leucine	UUA: Leucine
	UUC: Phenylalanine	UCC: Serine	UAC: Tyrosine	UGC: Cysteine	UUG: Leucine	UUG: Leucine
	UUU: Phenylalanine	UCU: Serine	UAU: Tyrosine	UGU: Cysteine	UUA: Leucine	UUA: Leucine
A	AUU: Isoleucine	ACU: Threonine	AUU: Isoleucine	AUU: Isoleucine	AUU: Isoleucine	AUU: Isoleucine
	AUC: Isoleucine	ACC: Threonine	AUA: Isoleucine	AUA: Isoleucine	AUA: Isoleucine	AUA: Isoleucine
	AUU: Isoleucine	ACU: Threonine	AUU: Isoleucine	AUU: Isoleucine	AUU: Isoleucine	AUU: Isoleucine
G	GUU: Valine	GGU: Glycine	GAU: Aspartate	GGU: Glycine	GUU: Valine	GUU: Valine
	GUC: Valine	GCC: Glycine	GAA: Aspartate	GCC: Glycine	GUC: Valine	GUC: Valine
	GUU: Valine	GGU: Glycine	GAU: Aspartate	GGU: Glycine	GUU: Valine	GUU: Valine

## 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 = 37,000 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  $\times$  (660-dalton/ base pair)
- MW 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
$^{32}\text{P}$	$\beta$	14.3 days
$^{35}\text{S}$	$\beta$	87 days
$^{32}\text{S}$	$\beta$	14.3 days
$^{35}\text{S}$	$\beta$	87 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 (Å) = diameter of H<sub>2</sub> molecule = 0.3 nm
  - 1 micrometer (µm) = 10 Å =  $10^{-5}$  mm
  - 1 micron/ micrometer (mm) =  $10^{-3}$  mm
  - 1 mm = 1000 µm

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

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**Yicheng Fang**



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