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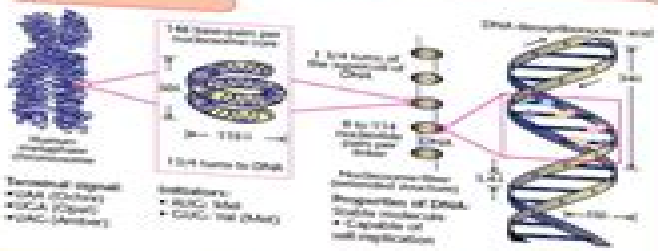
College Genetics

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.

Curie (Ci): Unit used to express activity of radioactive substance.
- 1 Ci = 1000 mCi = 3.7×10^{10} disintegrations/second
- 1 becquerel = 1 disintegration/second = 2.7×10^{-11} mCi
- 1 mCi = 3.7×10^{7} becquerels

DNA



GENETIC CODE

First (5') Letter	Second Letter: U	Second Letter: C	Second Letter: A	Second Letter: G	Third (3') Letter
U	UUU phenylalanine	UCU serine	UAU tyrosine	UGU cysteine	U
	UUC phenylalanine	UCC serine	UAC tyrosine	UGC cysteine	C
	UUA leucine	UCA serine	UAA Ochre (termination)	UGA Opal (termination)	A
	UUG leucine	UCG serine	UAG Amber (termination)	UGG tryptophan	G
C	CUU leucine	CCU proline	CAU histidine	CGU arginine	U
	CUC leucine	CCC proline	CAC histidine	CGC arginine	C
	CUA leucine	CCA proline	CAA glutamine	CGA arginine	A
	CUG leucine	CCG proline	CAG glutamine	CGG arginine	G
A	AUU isoleucine	ACU threonine	AAU asparagine	AGU serine	U
	AUC isoleucine	ACC threonine	AAC asparagine	AGC serine	C
	AUA isoleucine	ACA threonine	AAA lysine	AGA arginine	A
	AUG methionine (initiator)	ACG threonine	AAG lysine	AGG arginine	G
G	GUU valine	GCU alanine	GAU aspartate	GGU glycine	U
	GUC valine	GCC alanine	GAC aspartate	GGC glycine	C
	GUA valine	GCA alanine	GAA glutamate	GGA glycine	A
	GUG valine (initiator)	GCG alanine	GAG glutamate	GGG glycine	G

ISOTOPE BASE

Isotope	Particle Emitted	Half-life
^{14}C	β	5.73 years
^{3}H	β	12.3 years
^{125}I	γ	60 days
^{32}P	β	14.2 days
^{33}P	β	25 days

ANALOGY

Earth	Cell
Continent	Cell nucleus
State	Chromosome
City	Chromosomal DNA
Address	Gene segment

UNITS OF MASS

- Molecular weight (mw) is measured in daltons; 1 dalton = mass of hydrogen molecule = 3.32×10^{-24} g
- Average molecular weight of 1 nucleotide pair = 660 daltons.
- DNA units = kilobase (kb) = 1 = 10^3 bases
- 1.0 kb DNA = coding capacity for 333 amino acids = 37,000 dalton proteins
- 100,000 dalton proteins = 270 base pair (bp) DNA
- 300,000 dalton proteins = 1.10 kilobase (kb) DNA
- MW of a double-stranded DNA molecule = (number of base pairs) × 1960 (dalton/base pair)
- Moles of a double-stranded DNA molecule = 2 × (grams of DNA)/(MW daltons)

NUCLEIC ACID BASE

- 1 μg of 1000 bp DNA = 1.52 pmol = 9.1×10^{11} molecules
- 1 μg of pBR322 DNA (4361 bp) = 0.35 pmol = 2.1×10^{11} molecules
- 1 mg of λ DNA (48502 bp) = 0.05 pmol = 1.8×10^{10} molecules
- 1 pmol of 1000 bp DNA = 0.66 μg
- 1 pmol of pBR322 DNA (4361 bp) = 2.88 μg
- 1 pmol of λ DNA (48502 bp) = 32.01 μg

Notes: There are 3×10^9 bp in human genome • 30% of human genome is repetitive DNA sequence; 40% is unique • Human chromosome number (diploid) is 46 (23 pairs).

MEASURING DISTANCE

- Genetic distances are expressed in either kb, mb, or cM (centimorgans)
- 1 cM equals one megabase (mb) of DNA
- Loci that is 1 cM apart shows 1% recombination

Lengths
- 1 angstrom (Å) = diameter of H nucleus = 0.1 nm
- 1 nanometer (nm) = 10 Å = 10^{-9} mm
- 1 micron/ micrometer (mm) = 10^{-3} mm
- 1 mm = 1000 mm

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.
- No mutations from one allelic state to another; meiosis is normal so chance is only factor operative in gametogenesis.

Equilibrium Frequencies:
Frequencies of dominant allele A and recessive allele a among egg and sperm are p and q (= 1 − p)

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Terry C. Jones

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