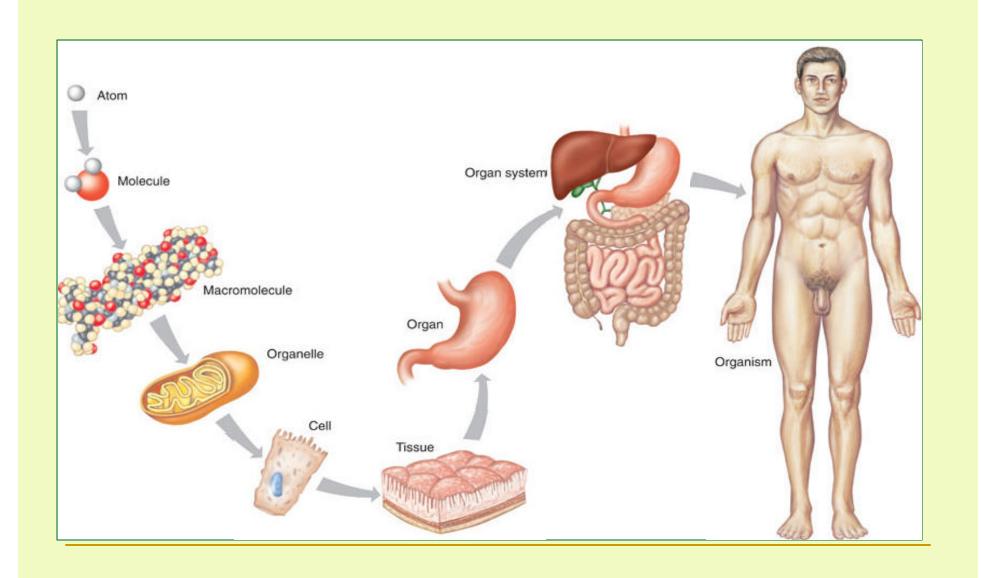
Introducción Macromoléculas

Dra. Luz E. Cuevas NURS 1231

INTRODUCION

- DEFINICIONES
- ANATOMIA
- FISIOLOGIA

NIVELES DE ORGANIZACION



CARACTERISTICAS DE LA VIDA

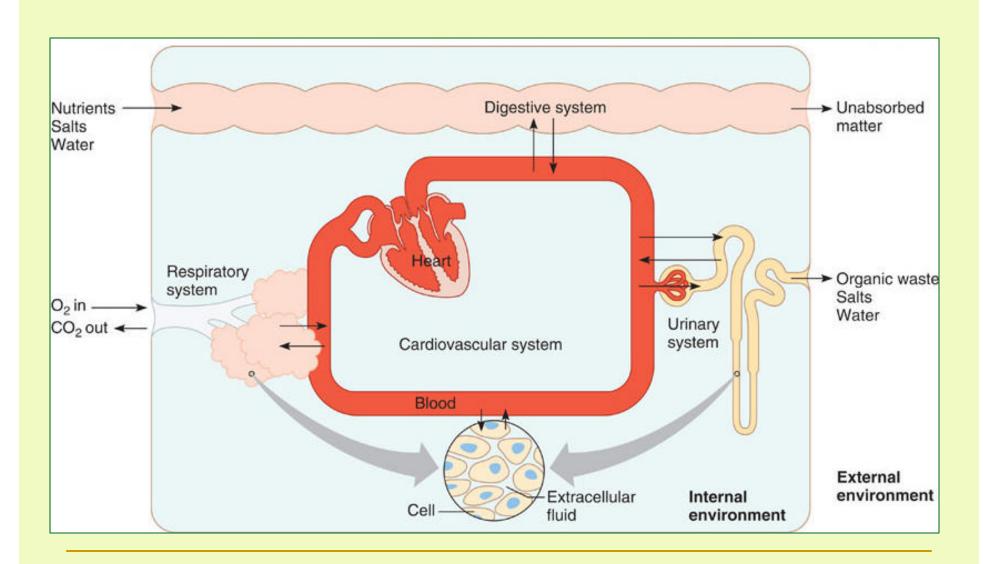
- Movimiento
- Irritabilidad
- Crecimiento
- Reproducción

- Metabolismo
 - Respiración
 - Digestión
 - Absorción
 - Circulación
 - Excreción

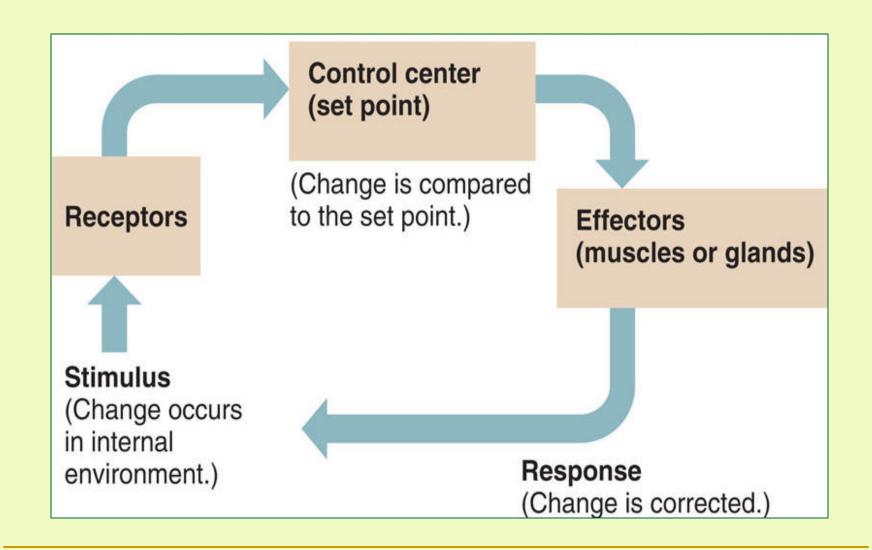
PARA VIVIR SE REQUIERE:

- Agua
- Nutrientes
- Oxígeno
- Calor
 - temperatura
- presión

HOMEOSTASIS



HOMEOSTASIS



H E

Control center

The brain detects the deviation from the set point and signals effector organs.

Receptors

Thermoreceptors send signals to the control center.

Stimulus

Body temperature rises above normal.

too high

Normal body temperature 37°C (98.6°F)

Effectors

Skin blood vessels dilate (increasing skin blood flow), and sweat glands secrete.

Response

Body heat is lost to surroundings, temperature drops toward normal.

H M E

Normal body temperature 37°C (98.6°F)

too low

Stimulus

Body temperature drops below normal.

Receptors

Thermoreceptors send signals to the control center.

Response

Body heat is conserved, temperature rises toward normal.

Effectors

Skin blood vessels constrict (decreasing skin blood flow), and sweat glands remain inactive.

Effectors Muscle activity

generates body heat.

Control center

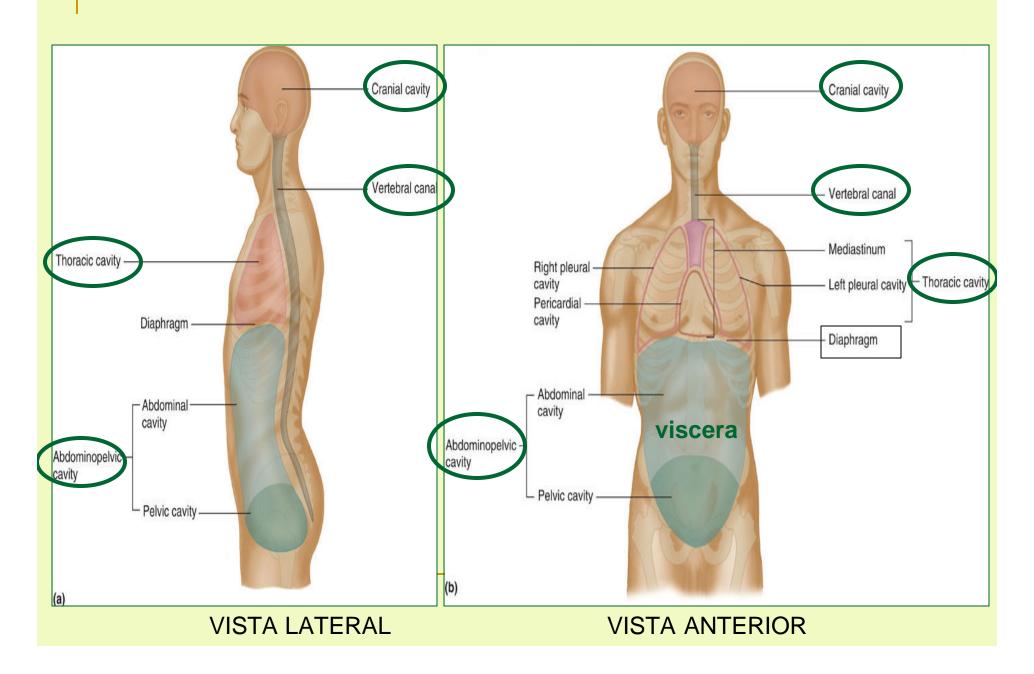
The brain detects the deviation from the set point and signals effector organs.

If body temperature continues to drop, control center signals muscles to contract involuntarily.

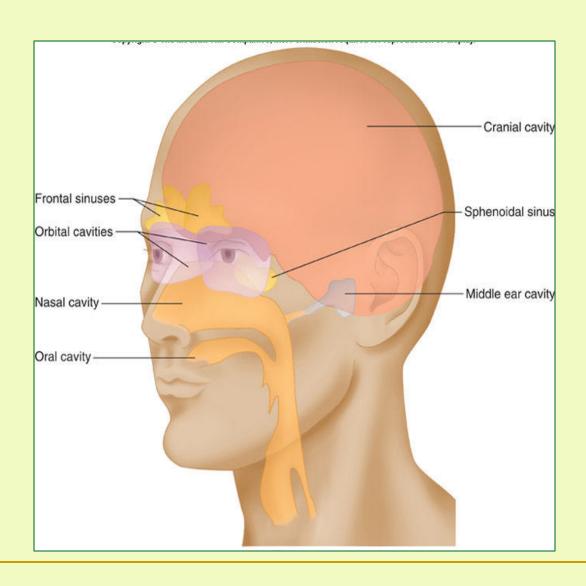
CAVIDADES DEL CUERPO

- Axial
 - Cabeza, cuello y tronco
- Apendicular
 - Extremidades superiores y inferiores

CAVIDADES DEL CUERPO

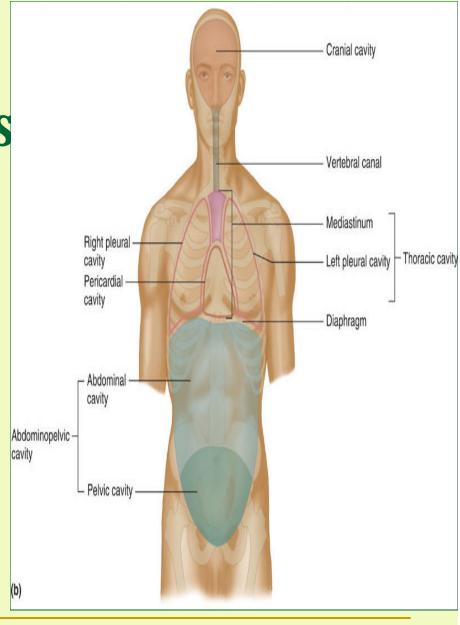


CAVIDADES DE LA CABEZA



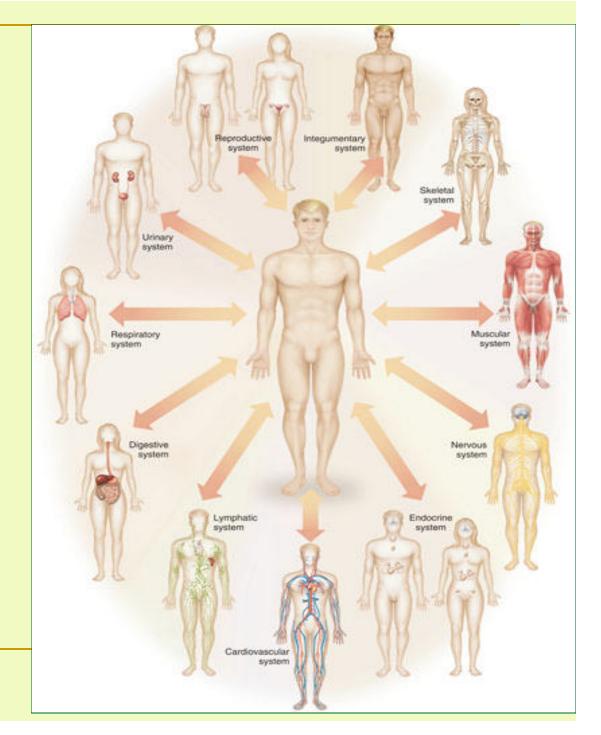
MEMBRANAS TORACICAS Y ABDOMINOPELVICAS

- Parietal
- Visceral
- Membrana pleural
 - Fluido seroso
- Membrana pericardial
- Membrana peritoneal



SISTEMAS

- Cubierta corporal
- Soporte
- Movimiento
- Integración y coordinación
- Transporte
- Absorción y excreción
- Reproducción

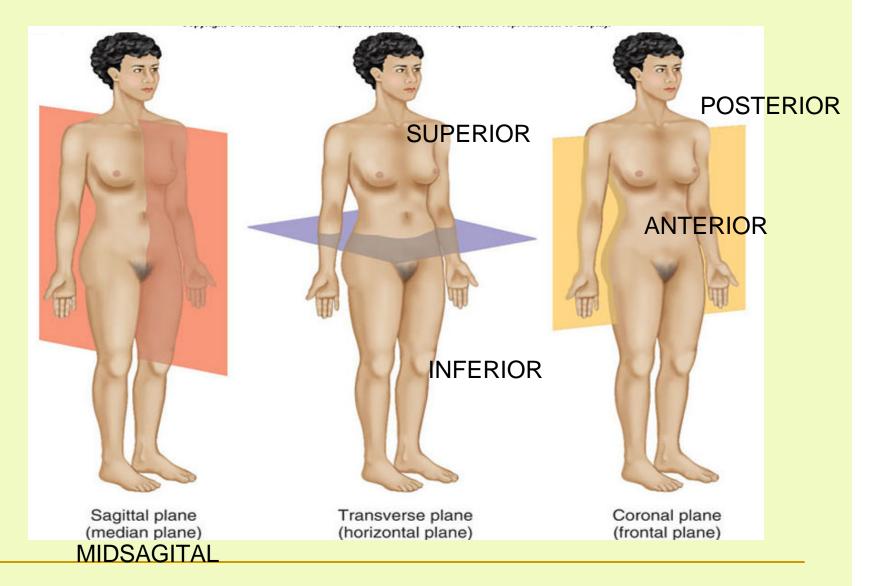


TERMINOLOGIA ANATOMICA

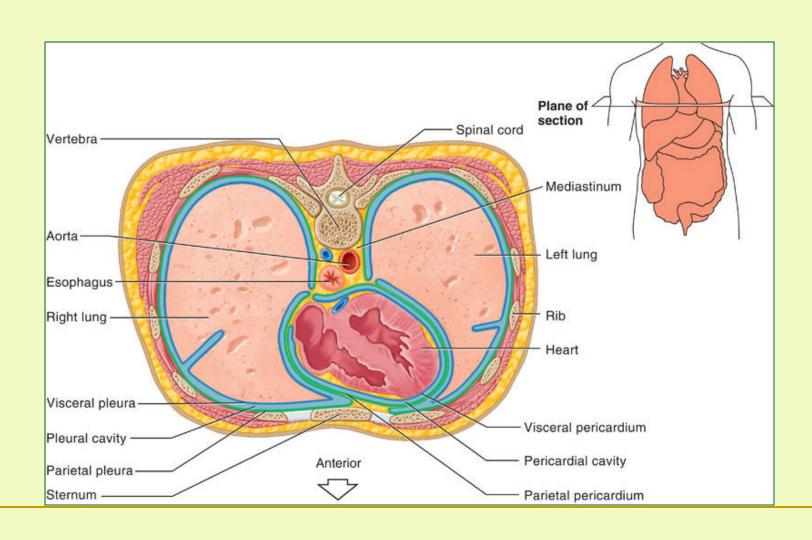
- Posición anatómica
- Posiciones anatómicas
 - Superior
 - Inferior
 - Anterior
 - Posterior

- Posiciones anatómicas
 - Medial
 - Lateral
 - Proximal
 - Distal
 - Superficial
 - profundo

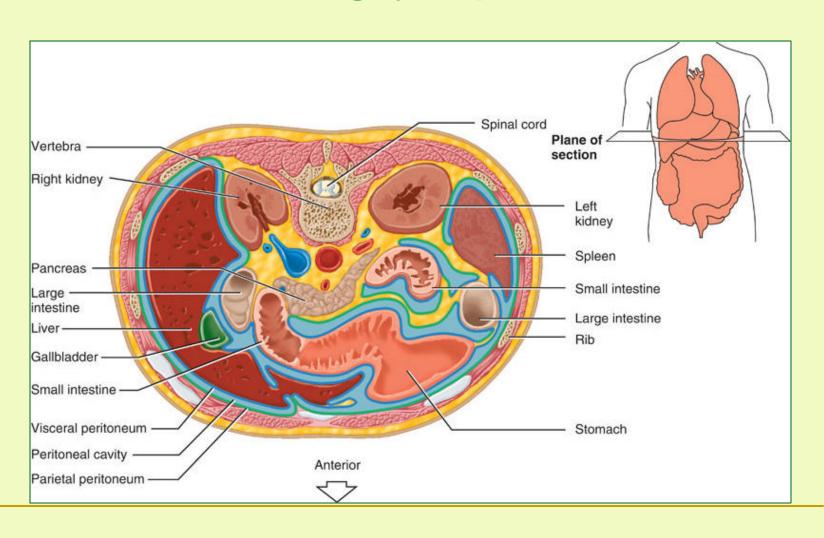
PLANOS CORPORALES



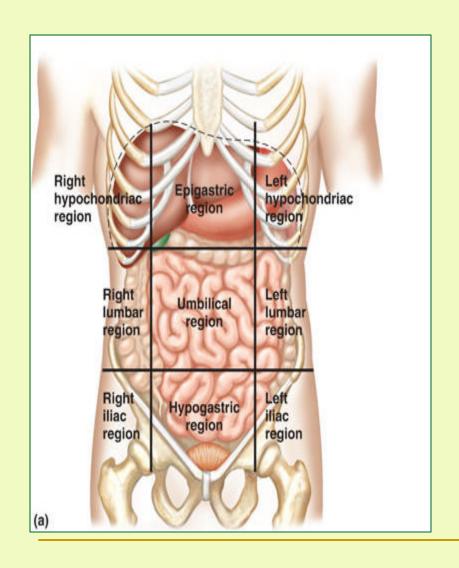
SECCION TRANSVERSAL TORACICA

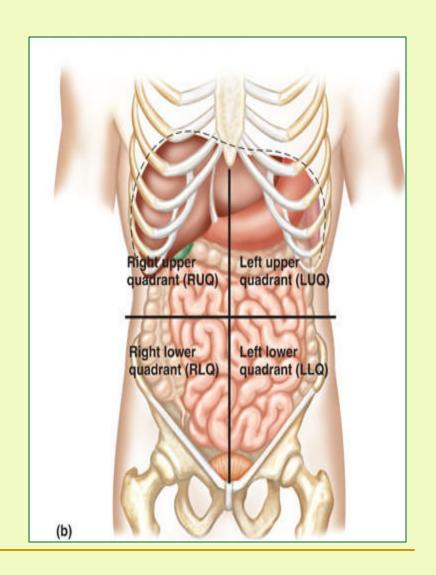


SECCION TRANSVERSAL ABDOMINAL



REGIONES CORPORALES

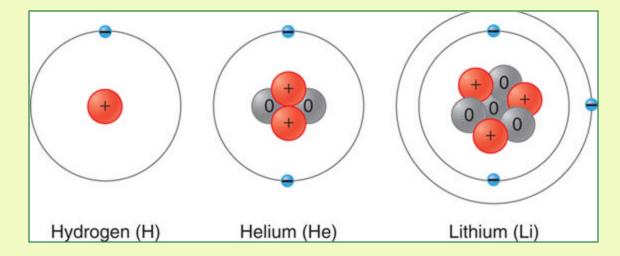


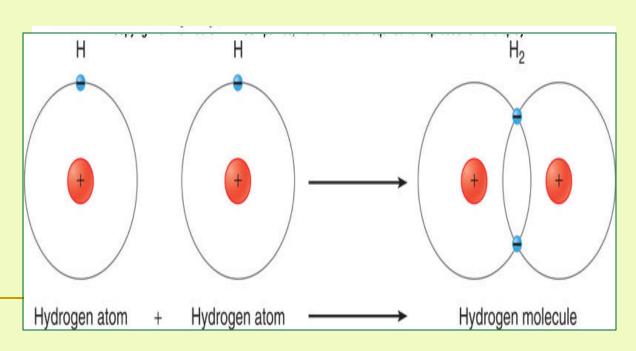


QUIMICA BASICA

DEFINICIONES

- ELEMENTO
- ATOMO
- ION
 - Anión
 - Catión
- ENLACEIONICO
- ENLACECOVALENTE

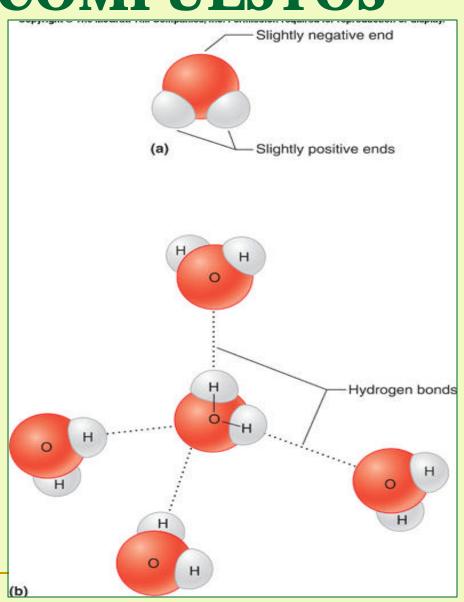




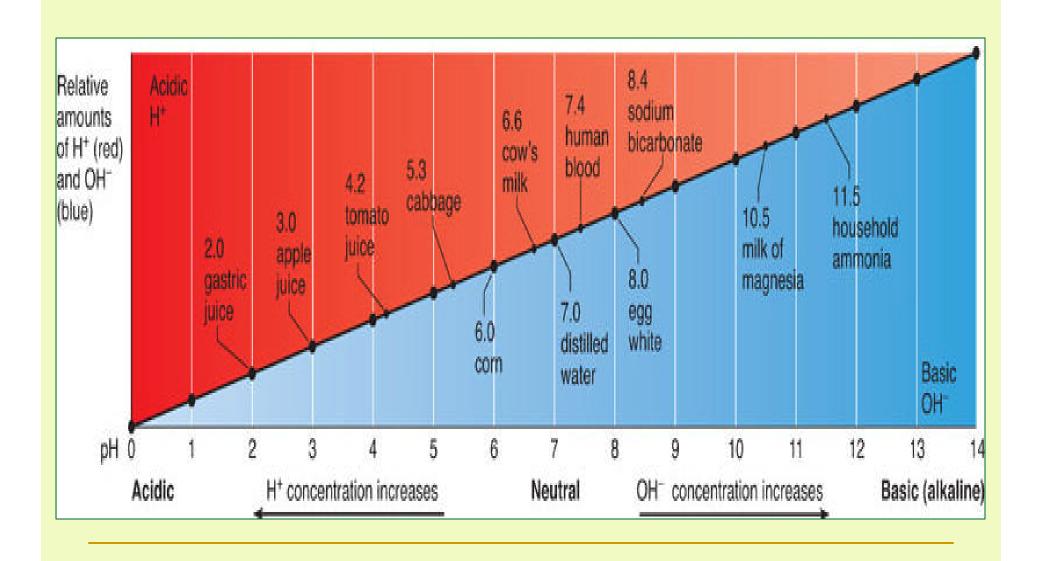
MOLECULAS Y COMPUESTOS

- MOLECULA
 - 2 átomos del mismo elemento
- COMPUESTO
- AGUA
 - POLAR





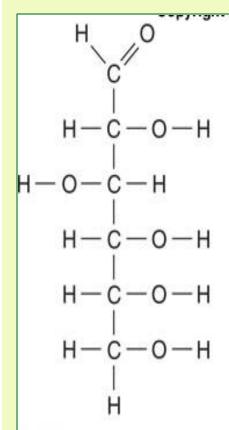
ACIDOS Y BASES



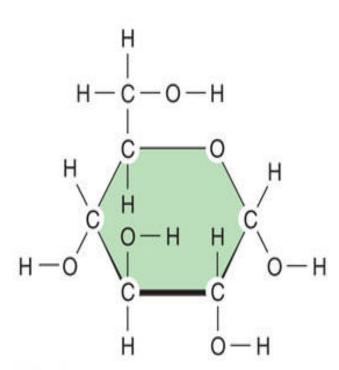
CONSTITUYENTES QUIMICOS DE LA CELULA

- MOLECULAS INORGANICAS
 - AGUA, OXIGENO
- IONES INORGANICOS
- SUSTANCIAS ORGANICAS
 - CARBOHIDRATOS
 - LIPIDOS
 - PROTEINAS
 - ACIDOS NUCLEICOS

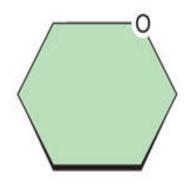
CARBOHIDRATOS



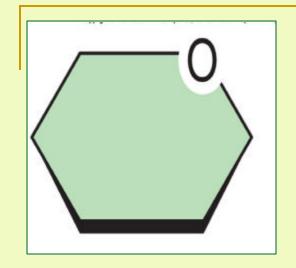
(a) Some glucose molecules (C₆H₁₂O₆) have a straight chain of carbon atoms.

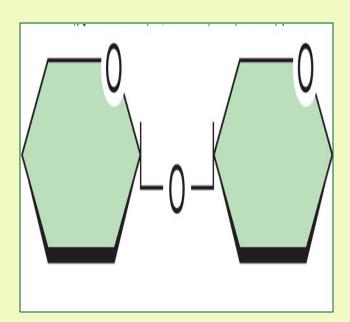


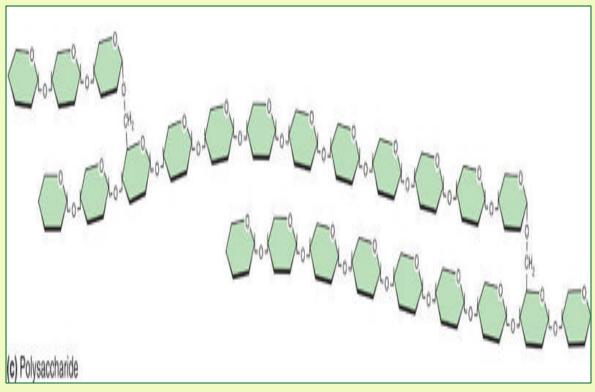
(b) More commonly, glucose molecules form a ring structure.



(c) This shape symbolizes the ring structure of a glucose molecule.



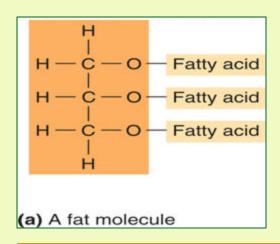


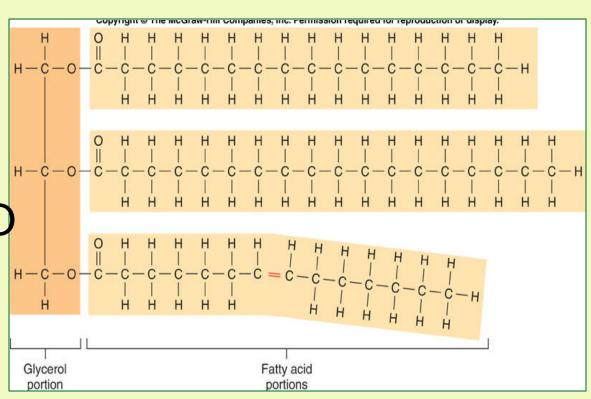


CARBOHIDRATOS

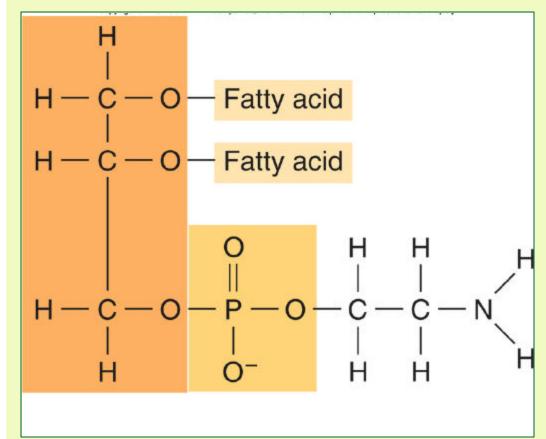
LIPIDOS

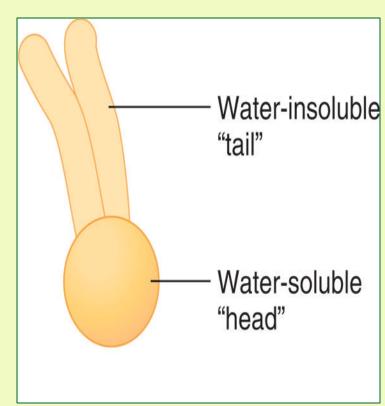
- ACIDOS GRASOS
- SATURADOS
- NO- SATURADOS
- TRIGLICERIDO





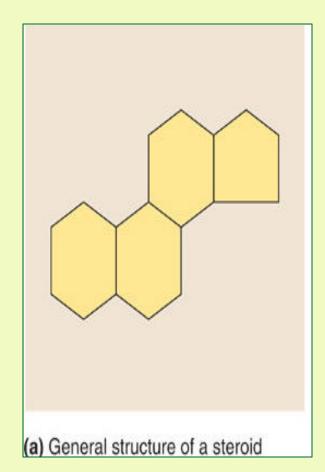
FOSFOLIPIDO

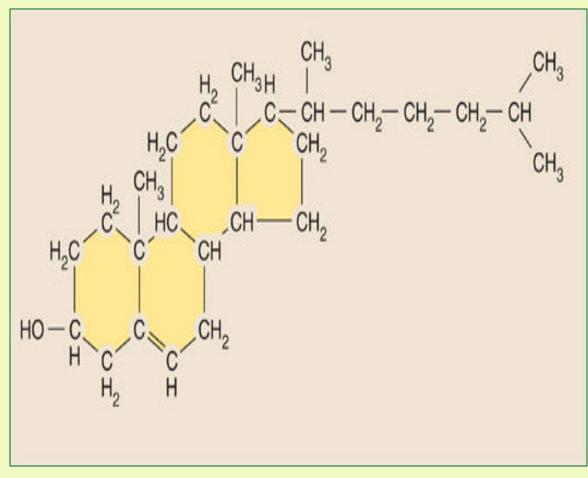


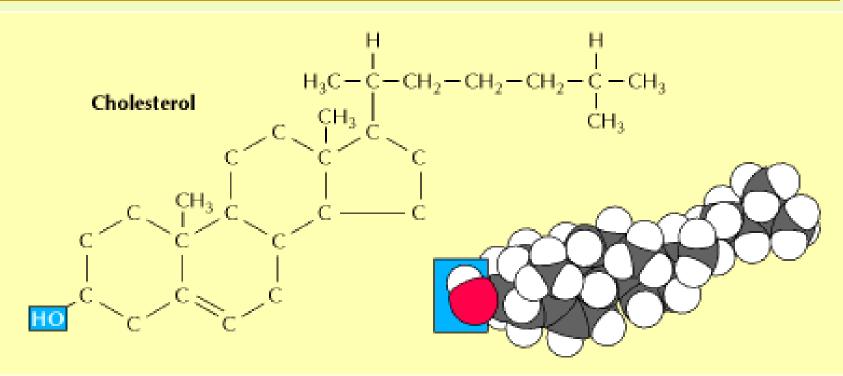


LIPIDOS

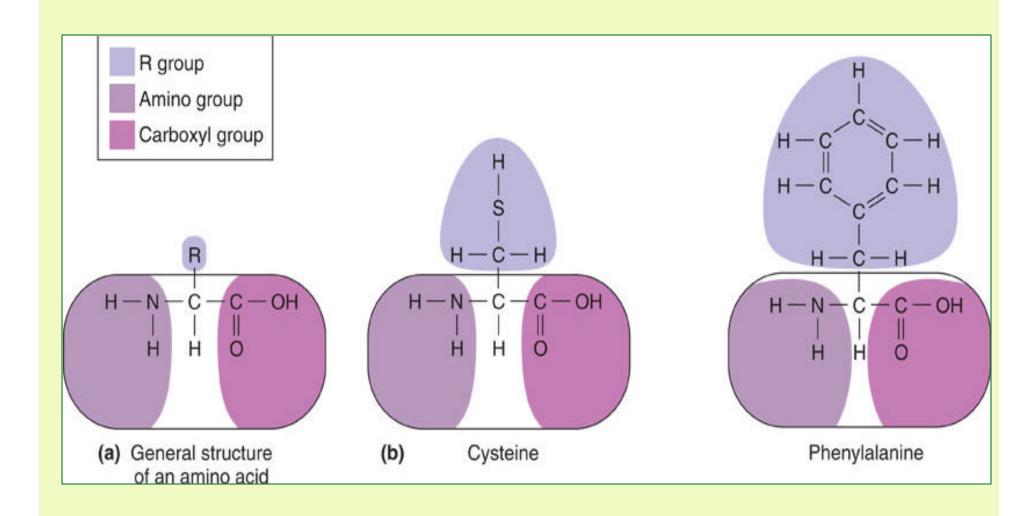
ESTEROIDES

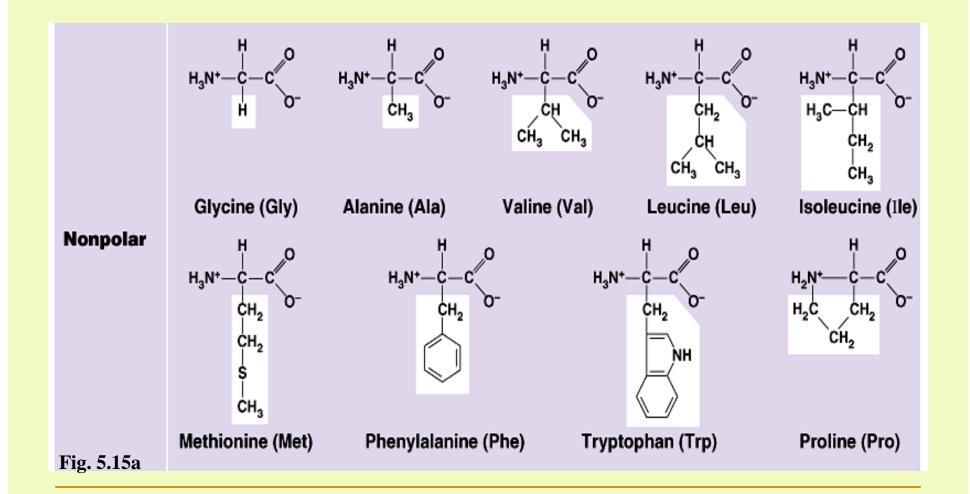


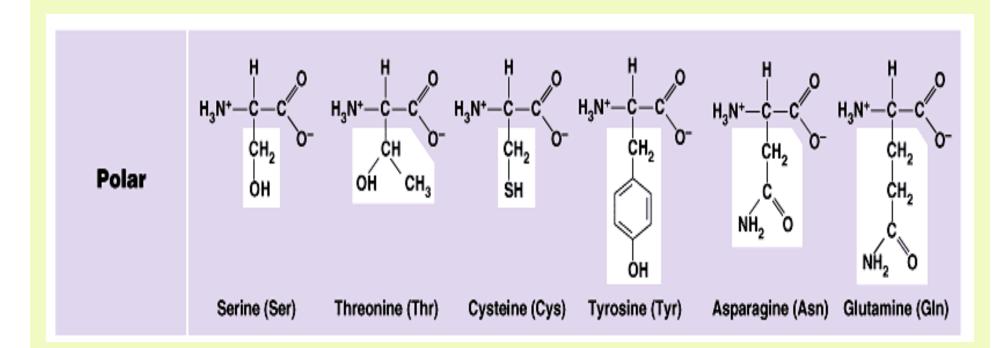


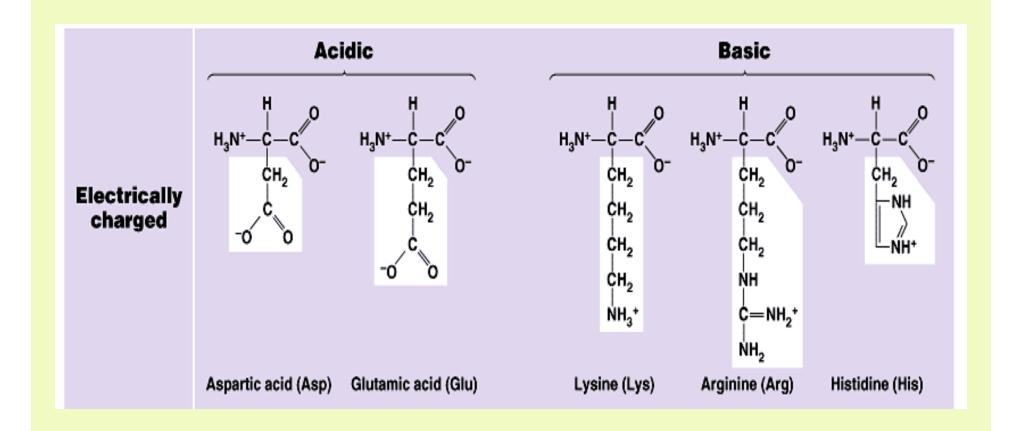


AMINOACIDOS



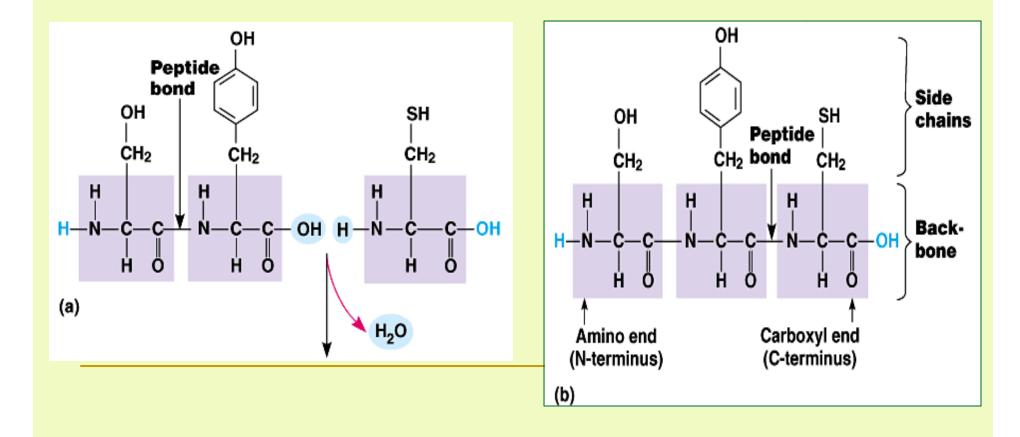




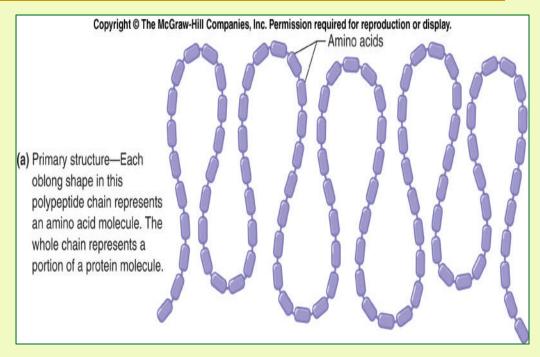


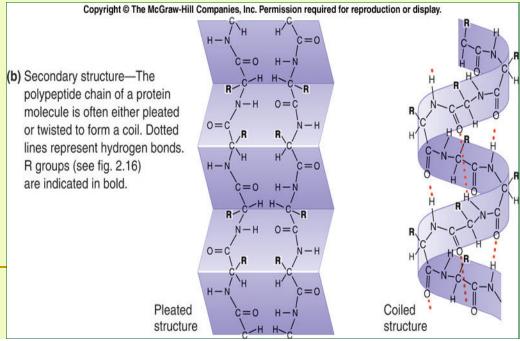
ENLACE PEPTIDICO

- deshidratación
- Enlace covalente

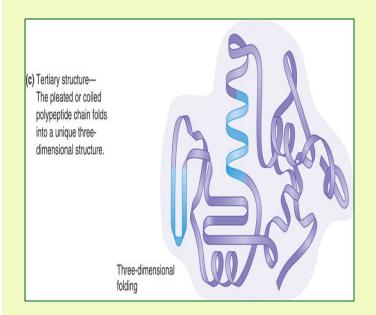


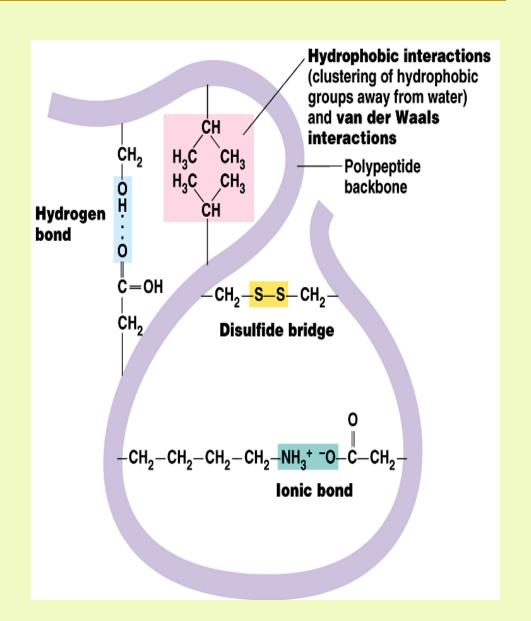
- FUNCIONES
 - RECEPTORES
 - ANTICUERPOS
 - ENZIMAS
- ESTRUCTURA
 - PRIMARIA
 - SECUNDARIA





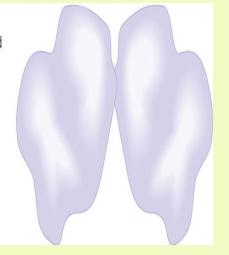
ESTRUCTURA TERCIARIA

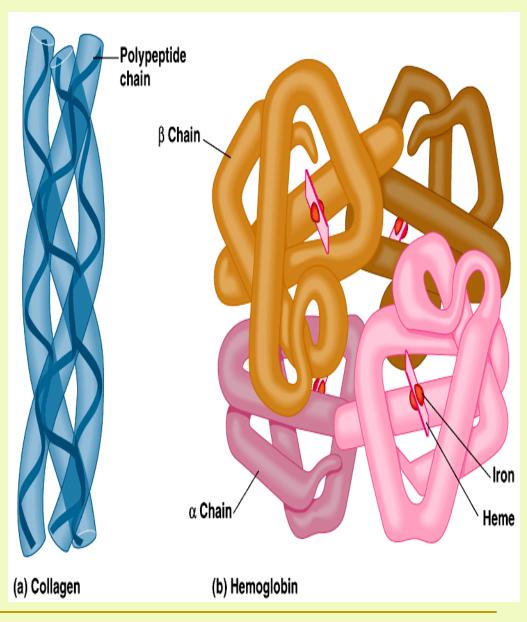


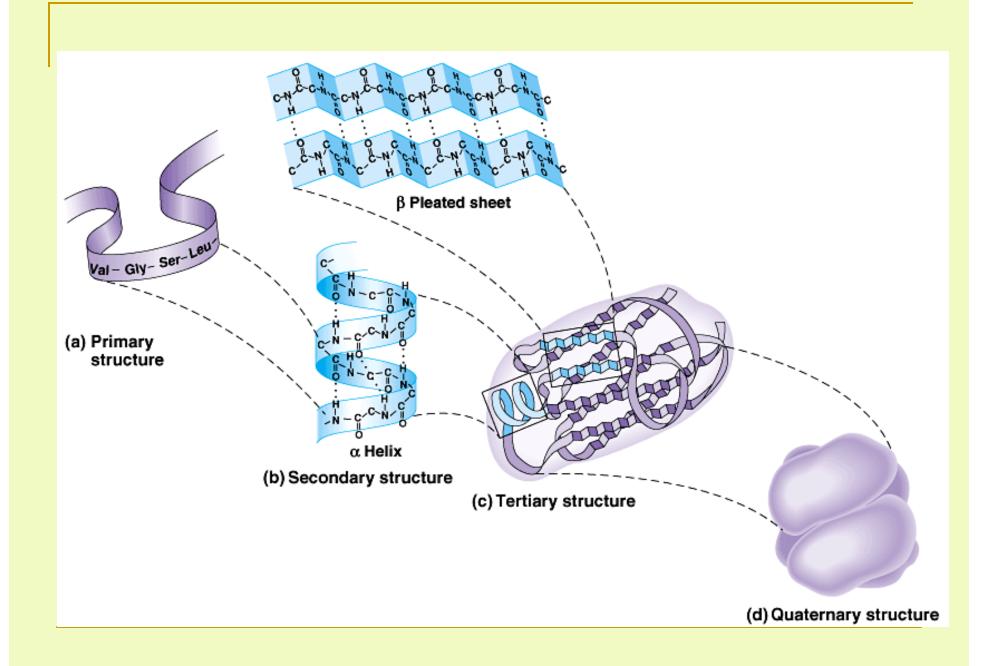


ESTRUCTURA CUATERNARIA

(d) Quaternary structure—Two or more polypeptide chains may be connected to form a single protein molecule.

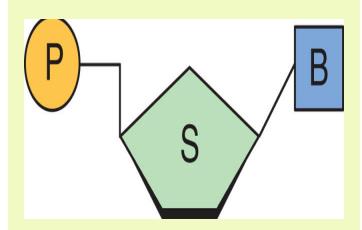


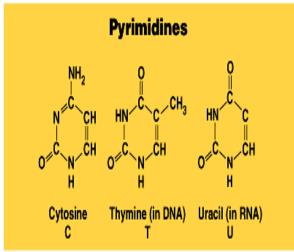


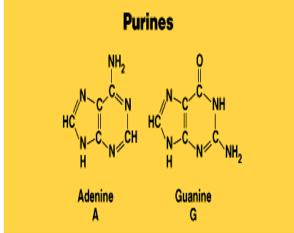


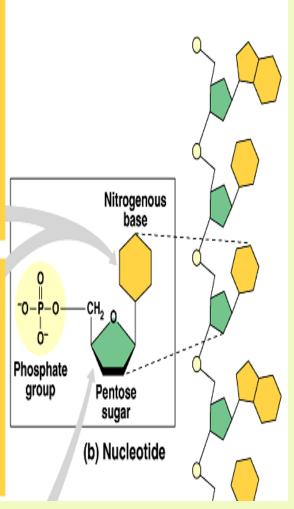
ACIDOS NUCLEICOS

NUCLEOTIDOS



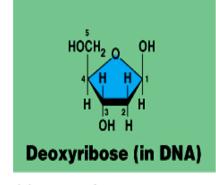


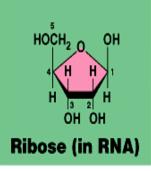




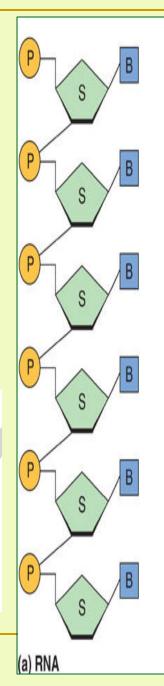
ACIDOS NUCLEICOS

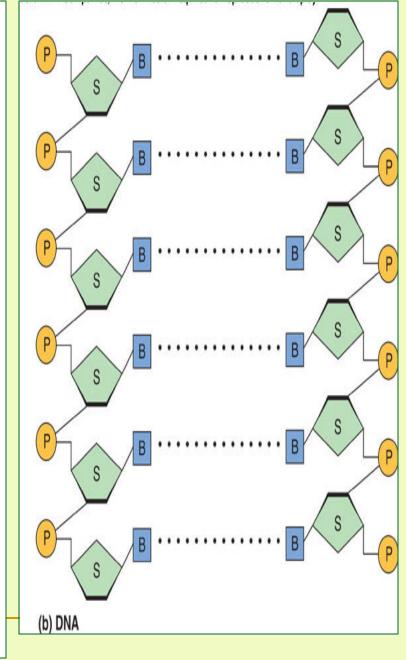
- DNA
- RNA



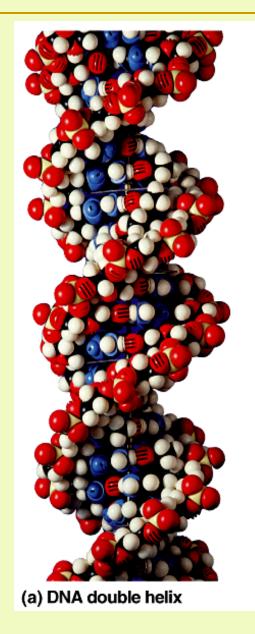


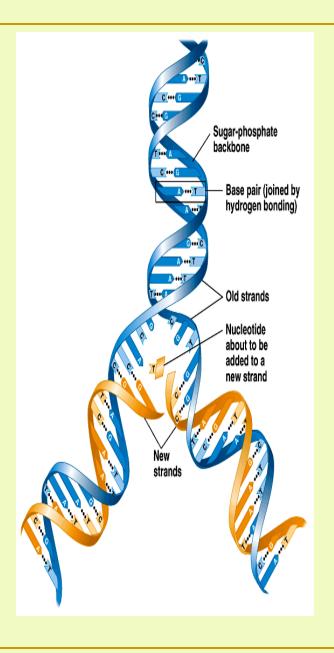
(a) Nucleotide components





DNA





ATP

