

MOLECULAR BIOLOGY

The Relationships of Molecules to Biological Processes

Levels of Organization

1. **Multicellular organisms**
2. **Organ systems** (Groups of different tissue types working together)
3. **Tissues** (Groups of different cell types working together)
4. **Cells** (Basic functional unit of life, which includes single-celled organisms)
5. **Molecular** (Molecular structure and function that ultimately determine the biology of the organism)

Major Macromolecules

Major macromolecules are **deoxyribonucleic acid (DNA)**, **ribonucleic acid (RNA)**, and **proteins**; these are studied in the fields of cell biology, genetics, molecular genetics, and biochemistry; genomes is the study of the functions of genes.

- **Nucleotides** are large polymers created from molecular subunits (e.g., nucleic acids build DNA and RNA; amino acids build proteins).
- Genomes consist of nucleic acids (i.e., DNA or RNA) that are preserved and transmitted from one biological process to another (e.g., polypeptides resulting from protein or RNA).

DNA
DNA is the genetic, informational molecule in every cellular organism (viruses appear to be exceptions). Segments of DNA or RNA are capable of "living" in base pairs and is found in the nuclei of eukaryotes, the cytoplasm of prokaryotes, and some cellular organelles (mitochondria, chloroplasts).

- DNA "language" (i.e., the genetic code) is essentially universal; despite different distinct units in some single-celled organisms and in some mitochondrial genomes.
- A universal genetic language allows for such phenomena as insertion of human genes into bacteria, which can then produce "human" proteins.

RNA
RNA is found in many forms, most of which are used in protein synthesis.
RNA is the molecule of inheritance in some viruses.
Some RNA molecules (e.g., ribozymes) have enzymatic functions.

Major RNA Types & General Functions

RNA Type	Function
mRNA (messenger RNA)	Carries coded genetic message from DNA
snRNA	Most have noncoding nucleotides, removed
scRNA	Cells nucleus for translation after processing
rRNA (transfer RNA)	Transfers amino acids to ribosomes
rRNA (ribosomal RNA)	Main component of ribosomes
sRNA (small nuclear RNA)	Involved in DNA processing
sRNA (small nuclear RNA)	Involved in RNA processing
ncRNA (noncoding RNA)	Nonprotein-coding nucleotides
dsRNA (double-stranded RNA)	Found in some viruses; used in gene regulation
siRNA (small interfering RNA)	A type of ncRNA
miRNA (micro RNA)	Short nucleotide sequence; used in gene regulation

Proteins

- Proteins are coded for by genes; **proteomics** is the study of proteins, which are essential to nearly all cellular functions, including:
 - **Structure**: Cell cytoskeleton; tumors in liver and breasts.
 - **Energy resources**: Disruption in bird eggs for developing embryo.
 - **Homeostasis**: Insulin for blood carbohydrate regulation and cell metabolism.
 - **Enzymes**: Catalysis of chemical reactions.
 - **Transport**: Hemoglobin for gas exchange.
 - **Movement**: Muscle fiber components.
 - **Reception**: Nerve impulse transmission.
 - **Defense**: Antibodies produced for disease defense.

Central Dogma

- **Replication**: DNA is copied from other DNA.
- **Transcription**: RNA is copied from DNA.
 - **Translation**: Proteins are synthesized from RNA.
 - **Reverse transcription**: Retroviruses, a group of RNA viruses, possess a special enzyme called reverse transcriptase, which allows the viral genome to go in the reverse direction of the central dogma's information flow; this allows viral RNA to be converted into DNA, thereby allowing the host cell's genome (i.e., viral DNA → host DNA).



DNA & RNA Structure

Nucleotides are the components of nucleic acids, which are made of three subunits:

- **Sugar** (deoxyribose in DNA; ribose in RNA)
- **Phosphate**
- **Nitrogenous base** (five possible bases)
 - In DNA, the nucleic acid of chromosomes, four nitrogenous bases are found: **adenine (A)**, **guanine (G)**, **cytosine (C)**, and **thymine (T)**.
 - RNA consists of similar bases, except uracil (U) replaces thymine (T).

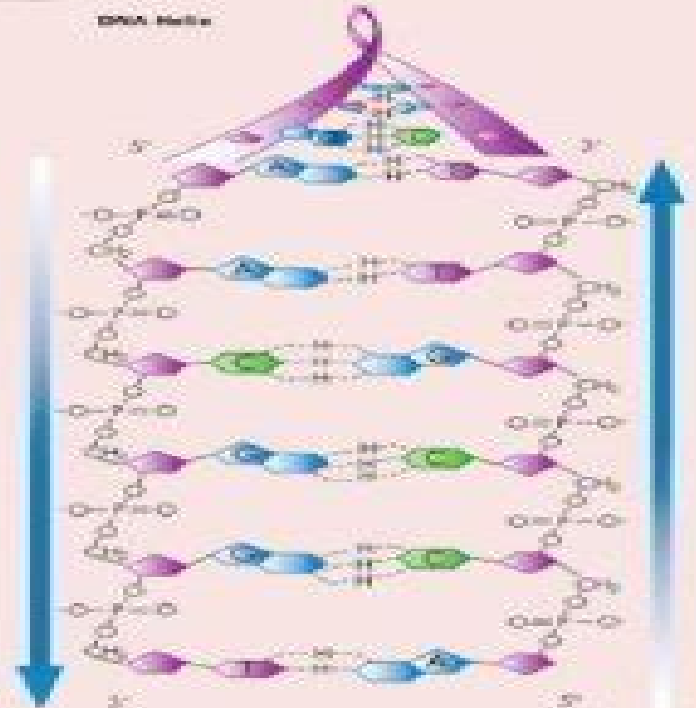
DNA Structure

- DNA is a double helix molecule.
- Shape is similar to a spiral staircase or twisted ladder, with the sides formed by repeating sugar-phosphate groups (from each nucleotide), and the horizontal rungs (i.e., steps) formed by hydrogen bonds (binding A with T or C with G).
- Unfunctionality of each side is opposite (i.e., antiparallel); 3' carbon to 5' carbon in the direction for reference in each nucleotide.

Structure of a Nucleotide



DNA Helix



- **Prokaryotic chromosomes** are typically small and circular, packaged by DNA binding proteins into a nucleoid (not a nucleus, as there is no membrane directly surrounding the DNA); may have additional plasmids (smaller, circular DNA).

Prokaryotic Chromosomes



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**Aristidis Veves, John M. Giurini, Raul J.
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