

MOLECULAR BIOLOGY

The Relationships of Molecules to Biological Processes

Levels of Organization

1. **Molecular organisms**
2. **Organ systems** (Groups of different tissues types working together)
3. **Tissues** (Groups of different cell types working together)
4. **Cells** (The functional unit of life, which includes single-celled organisms)
5. **Molecules** (Molecules 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. **Genomics** is the study of the functions of genes.

- **Macromolecules** are large polymers composed of numerous subunits (e.g., nucleic acids build DNA and RNA, amino acids build proteins).
- **Genes** consist of nucleic acids (i.e., DNA or RNA) that are preserved and transmitted from parent biological processes by coding for polypeptides (leading to proteins) or RNA.

DNA

- DNA is the genetic, informational molecule in every cellular organism (except viruses) used to store and transmit the genetic information of "living" organisms. It 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, slightly different details exist in some single-celled organisms and in some mitochondrial genomes.
- A common genetic language allows for such phenomena as insertion of human genes into bacteria, which can then produce "foreign" proteins.

RNA

- RNA is found in many forms, most of which are used for 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
rRNA (ribosomal)	Structures surrounding ribosomes (animal)
snRNA (small nuclear)	Essential for transcription after processing
tRNA (transfer RNA)	Transfers amino acids to ribosomes
sRNA (small ribosomal)	Main component of ribosomes
snRNA (small nuclear)	Involved in RNA processing
scRNA (small cytoplasmic)	Involved in RNA processing
siRNA (small interfering)	Found in some viruses; used in gene regulation
miRNA (microRNA)	A type of siRNA
lncRNA (long non-coding)	Short nucleotide sequences used in gene regulation

Proteins

- Proteins are coded for by genes. **Proteomics** is the study of proteins, which are essential in nearly all cellular functions, including:
 - Structure: Cell morphology, flexible in form and function
 - Energy reactions: Catalyzes reactions in food eggs for developing embryos
 - Movement: Results for blood coagulation regulation and cell metabolism
 - Enzymes: Catalyzes chemical reactions
 - Transport: Membranes for gas exchange
 - Movement: Muscle fiber components
 - Signaling: Hormone response mechanisms
 - Defense: Antibodies produced for immune defense

Central Dogma

- **Replication**: DNA is copied from other DNA.
- **Transcription**: RNA is copied from DNA.

The Central Dogma



DNA & RNA Structure

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

- **Sugar** (deoxyribose in DNA, ribose in RNA)

Phosphate

- **Phosphate**

- **Nitrogenous base** (five possible bases)

- In DNA, the nucleic acid of deoxyribose, base nitrogenous bases are found adenine (A), guanine (G), cytosine (C), and thymine (T).

- RNA consists of nucleic bases, except uracil (U) replaces thymine (T).

DNA Structure

DNA is a double helix molecule.

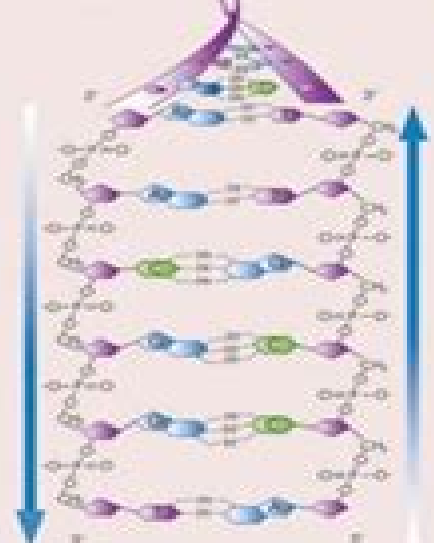
- Sugar is located in a spiral structure or twisted ladder, with the sides formed by repeating sugar-phosphate groups from each nucleotide, and the horizontal rungs (i.e., steps) formed by hydrogen bonds (bonding A with T or C with G).

- The width of each side is approximately 2 nanometers (2 nm) in the distance for nucleotides in each nucleotide.

Structure of a Nucleotide



DNA Molecule



Prokaryotic Chromosomes

- 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); some have additional regions (plasmids) (small DNA).

- Prokaryotic chromosomes form chromatin complexes.



Boc Study Guide Molecular Biology

Katrin Zwirgmaier



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