

Bios 0131: Macromolecules in Life

1. Proteins: building blocks of life. Basic ideas about proteins; amino acids, primary, secondary, tertiary and quaternary structure, enzymes and their functions. Part of the food, daily household, medical and industrial usage.
2. Carbohydrates: the fuel of life. Classification of carbohydrates, structures, functions, part of the food, daily household and industrial usage, etc.
3. Lipids: the storage. Structure, classification, functions, part of the food, household and industrial usage.
4. Nucleic acids: the coders. Structure, classification, functions of both DNA and RNA. A basic idea on the effect of nucleic acid dysfunction. DNA computers – a new future?