

Biochemistry ACS Study Guide

What are Nucleotides?

Nucleotides are the monomer unit for nucleic acids and are *composed of nitrogenous base, 5-carbon sugar and a phosphate group.*

Nucleic acids are biopolymers of: nucleotide monomers

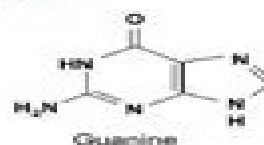
- DNA (MORE STABLE): carrier of genetic information; double-stranded
 - RNA (LESS STABLE): intermediate in expression of genetic information. RNA can form secondary structure (as in tRNA) by hydrogen bonding with itself. Not all forms of RNA are intermediates in expression of genetic information; single-stranded (usually).
 - Types of RNA:
 - tRNA: transfer RNA, holds amino acids used in protein synthesis, remember WOBBLE POSITION(Inosine)!
 - rRNA: ribosomal RNA, part of the ribosome
 - siRNA: small interfering RNA, short term silencing of pleiotrophin coding genes, targets mRNA for degradation
 - miRNA: micro RNA, silencing and post-transcriptional regulation of gene expression.
- etc. serve a wide array of different purposes (esp. Compared to DNA). Can also catalyze reactions (Ribozyme).

Nitrogenous Bases:

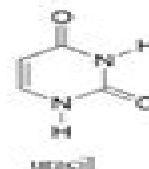
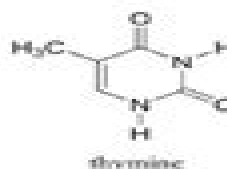
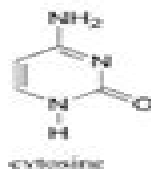
Use resonance to help to differentiate between all four: If needed nitrogen will donate!

- Purines (2 rings: pyrimidine and imidazole) - Adenine, Guanine are purines derivatives in nucleic acid

Purines



- Pyrimidines (one ring) - Cytosine, Thymine, and Uracil (in RNA only) are pyrimidine derivatives in nucleic acid



- A-T/U bond has 2 H-bonds
- G- C bond has 3 H-bonds

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DJ Losen



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Organic Chemistry Education Research into Practice Jay Wackerly, Sarah Zingales, Michael Wentzel, Gautam Bhattacharyya, Brett McCollum, 2025-03-25 This Research Topic has three main goals 1 provide a platform for instructors of organic chemistry to showcase evidence based methods and educational theories they have utilized in their classrooms 2 build new and strengthen existing connections between educational researchers and practitioners and 3 highlight how people have used chemical education based research in their teaching practice There are places in the literature dedicated for chemical education research CER however there is not a clear avenue for those that have changed their teaching methods based on published CER and report their experiences Creating this article collection will foster collaboration between chemical education researchers and teachers of organic chemistry This opportunity allows these instructors to share evidence based practices experiences challenges and innovative approaches from CER literature and beyond This Research Topic bridges discipline based education research and the scholarship of teaching and learning which will help advance organic chemistry education and improve student outcomes

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