

# 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

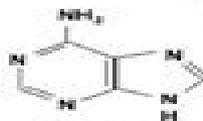
- DNA (MORE STABLE): carrier of genetic information; double-stranded
  - RNA (LESS STABLE) : intermediate in expression of genetic information. RNA can form secondary structure (as in tRNA) by hydrogen bonding with itself. Not all forms of RNA are intermediates in expression of genetic information; single-stranded (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:

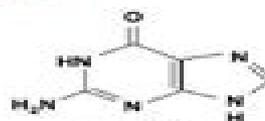
*Use resonance to help to differentiate between all four: If needed nitrogen will donate!*

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

#### Purines

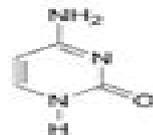


Adenine

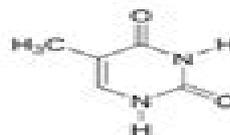


Guanine

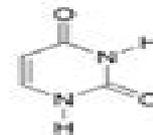
- Pyrimidines (one ring) - Cytosine, Thymine, and Uracil (in RNA only) are pyrimidine derivatives in nucleic acid



cytosine



thymine



uracil

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

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