

# Biochemistry ACS Study Guide

## What are Nucleotides? *hm*

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*

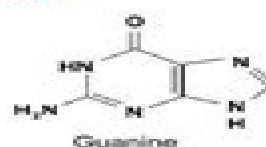
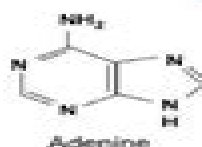
- DNA (MORE STABLE): carrier of genetic information; double-stranded
  - RNA (LESS STABLE): intermediate in expression of genetic information. RNA can form secondary structure (as in tRNA) by hydrogen bonding with itself. Not all forms of RNA are intermediates in expression of genetic information; single-stranded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

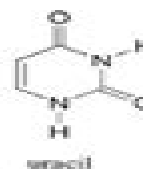
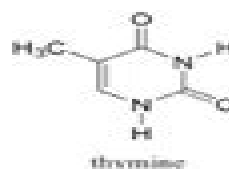
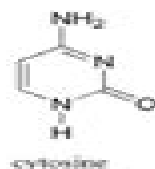
*Use resonance to help to differentiate between all four: If needed nitrogen will donate!*

- 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

# Pchem Acs Study Guide

**Michael Rajnik**



## **Pchem Acs Study Guide:**

## Decoding **Pchem Acs Study Guide**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Pchem Acs Study Guide**," a mesmerizing literary creation penned by a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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