

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).

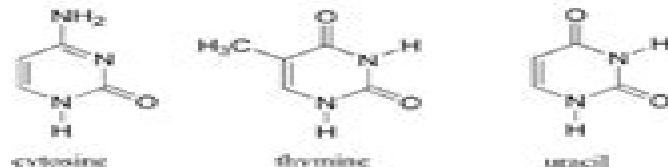
Nitrogenous Bases

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 acids



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



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

Acs Biochemistry Test Study Guide

Matthew Bowling

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in General Cardiovascular Medicine: 2021 Pietro Enea Lazzerini, Junjie Xiao, Maurizio Acampa, Pier Leopoldo

Capechi, Chen Liu, 2022-08-30 *The American Chemical Society at 125*, 2002 **Diversity, Equity, and Inclusion for Mathematics and Science Education: Cases and Perspectives** Lin, Cheng-Yao, Sun, Li, 2025-06-04 Diversity equity and inclusion DEI are critical pillars for transforming mathematics and science education As classrooms diversify the need to address systemic barriers and create inclusive learning environments becomes more urgent Cases on DEI in STEM education highlight the real world challenges and strategies educators face in promoting equitable access to learning opportunities dismantling biases and empowering students from historically marginalized communities Further exploration may reveal powerful teaching tools and catalyze reflective practice and institutional change encouraging educators to critically examine their roles in shaping a more inclusive future in math and science Cases on Diversity Equity and Inclusion for Mathematics and Science Education explores key issues and concepts related to diversity equity and inclusion in mathematics and science classrooms It offers solutions and successful strategies for teaching and learning in mathematics and science This book covers topics such as inclusive classrooms K-12 education pre-service teaching and is a useful resource for educators

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