Source: [KBBiologyMasterIndex]

1 | Nucleic Acids

1.1 | Nucleic Acids

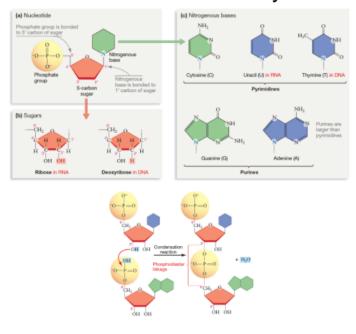
d-Oxy Ribone Nucleic Acid: DNA Ribone Nucleic Acid: RNA

All nucleic acids are comprised of monomer units that's synthesized together into polymers. => Just like | KBhBIO101Carbs|| Or | KBhBIO101AminoAcids||

1.2 | 3 basic parts of a Nucleic Acid

- Backbone
 - · phosphate group
 - sugar (Ribos => sugar in RNA, di-oxy Ribos => sugar in HNA)
 - In di-oby Ribos: a OH pair is replaced with a hydrogen only in one position. Hence "di-oxy"
- · nitrogenous base
 - · Bases in DNA
 - A, T, G, C
 - · Bases in RNA
 - A, U, G, C

DNA vs. RNA structure and synthesis



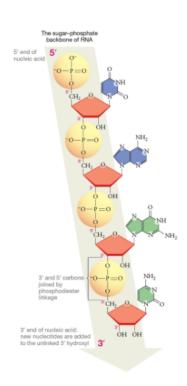


Figure 1: DNARNA_nucleic.png

How do we make nucleic acids? Can you guess? Huh? **Dehydration synthesis!** #TODO make that actually a note, at this pont

- 5' => one end of an RNA/DNA part
- 3' => another end of a RNA/DNA part
 - DNA is supposed to be double stranded
 - RNA is supposed to be single stranded

DNA is *anti-parallel* to each other => 5' to 3' backbone parallel to 3' to 5' backbone Temp copies of genome is RNA, permanent record in DNA