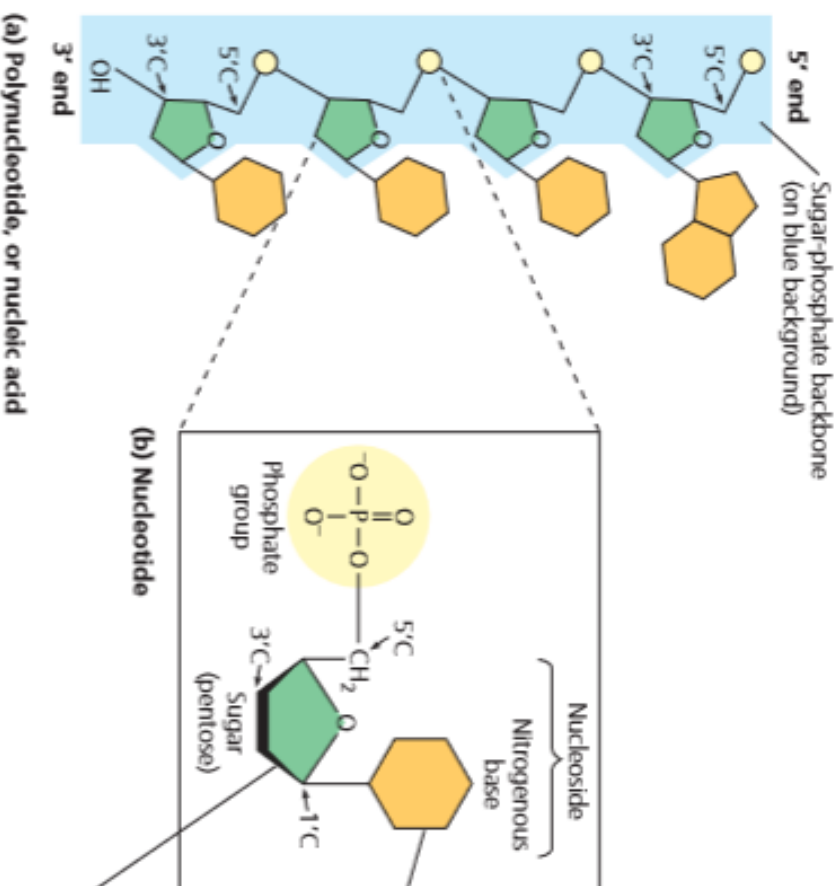
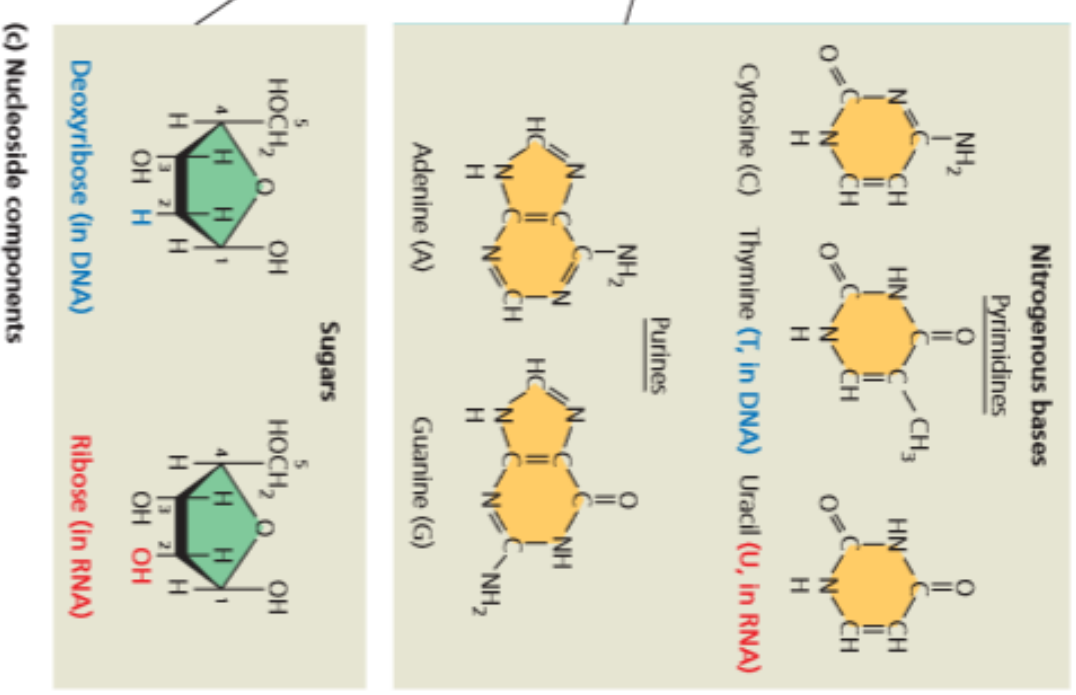


Materi Genetik

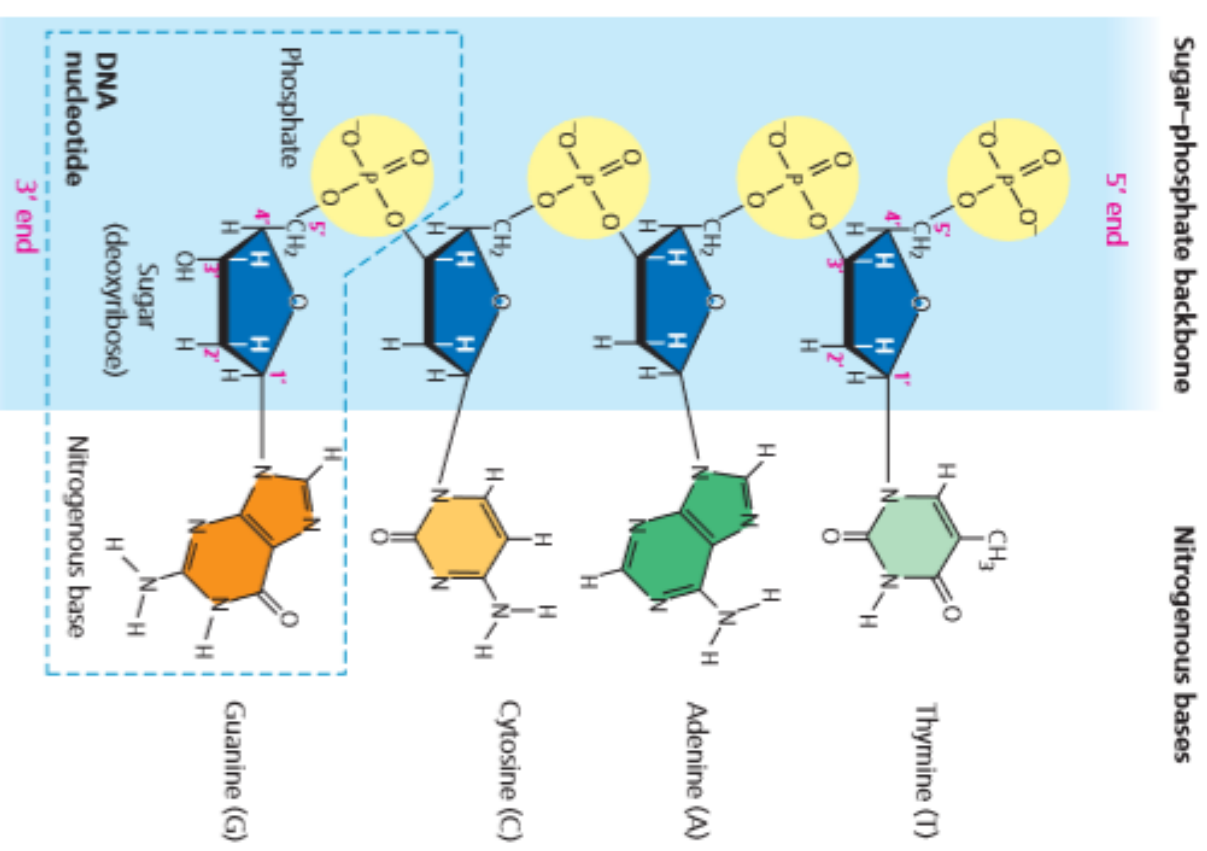
Asam Nukleat



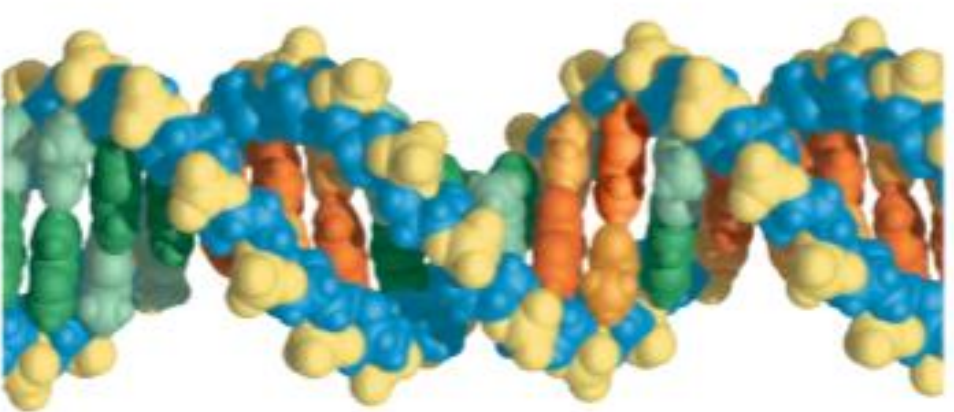
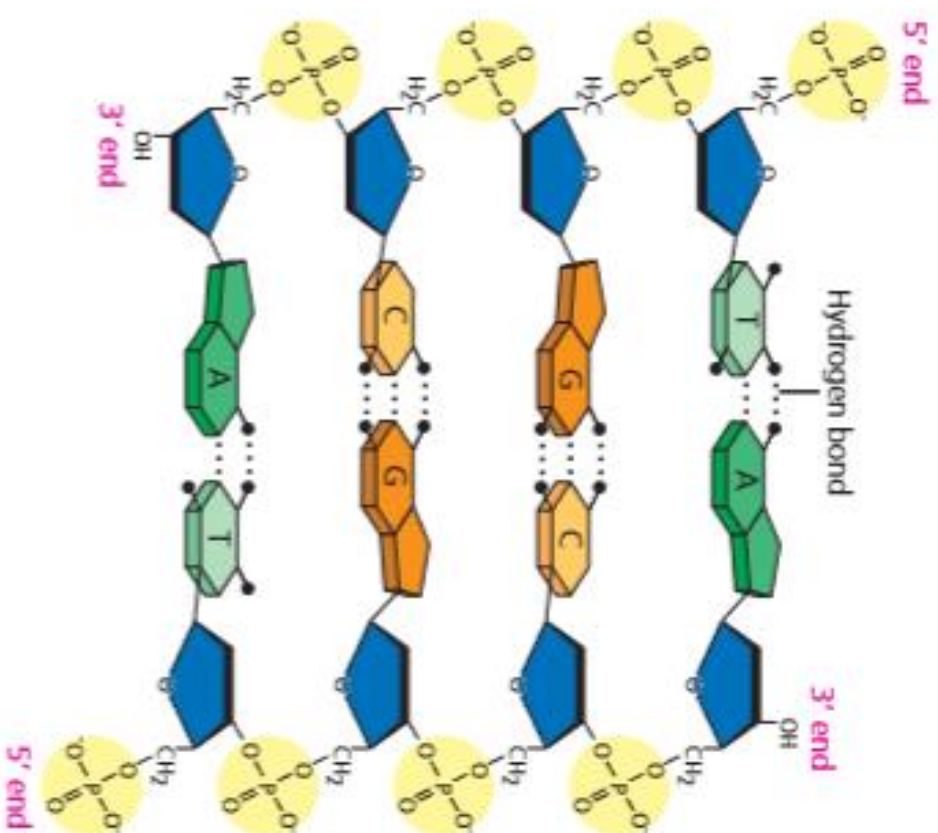
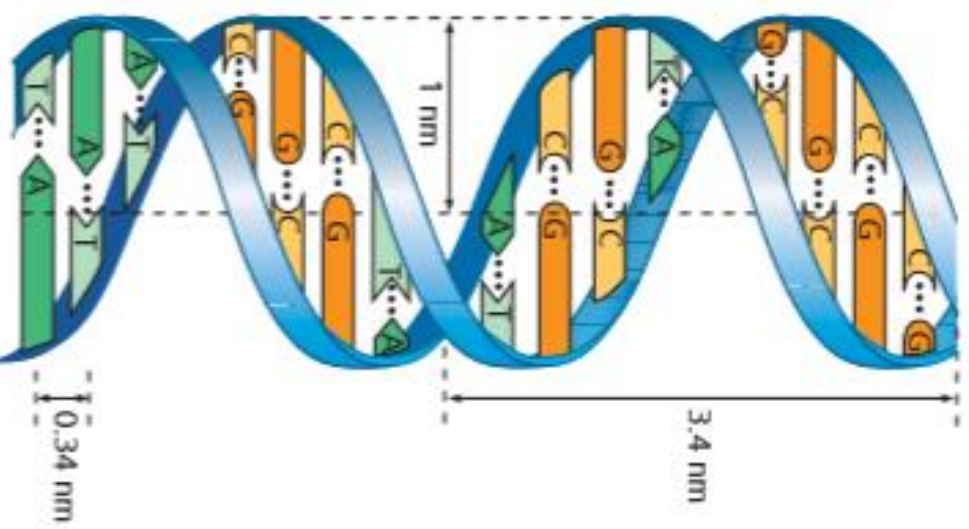
▲ Figure 5.26 Components of nucleic acids. (a) A polynucleotide has a sugar-phosphate backbone with variable appendages, the nitrogenous bases. (b) A nucleotide monomer includes a nitrogenous base, a sugar, and a phosphate group. Without the phosphate group, the structure is called a nucleoside. (c) A nucleoside includes a nitrogenous base (purine or pyrimidine) and a five-carbon sugar (deoxyribose or ribose).

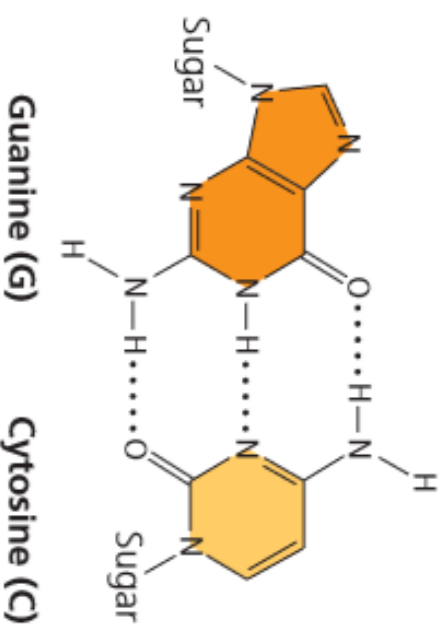
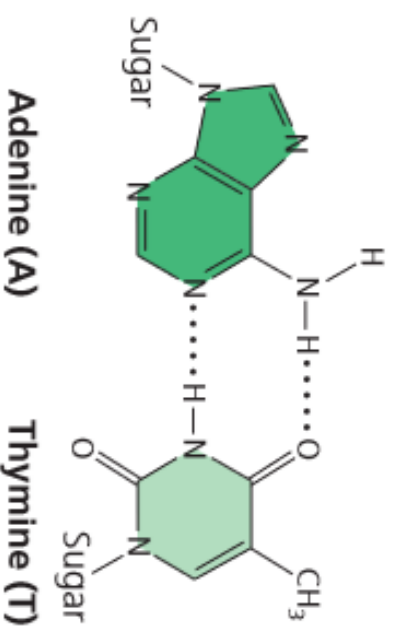


Struktur Dasar DNA

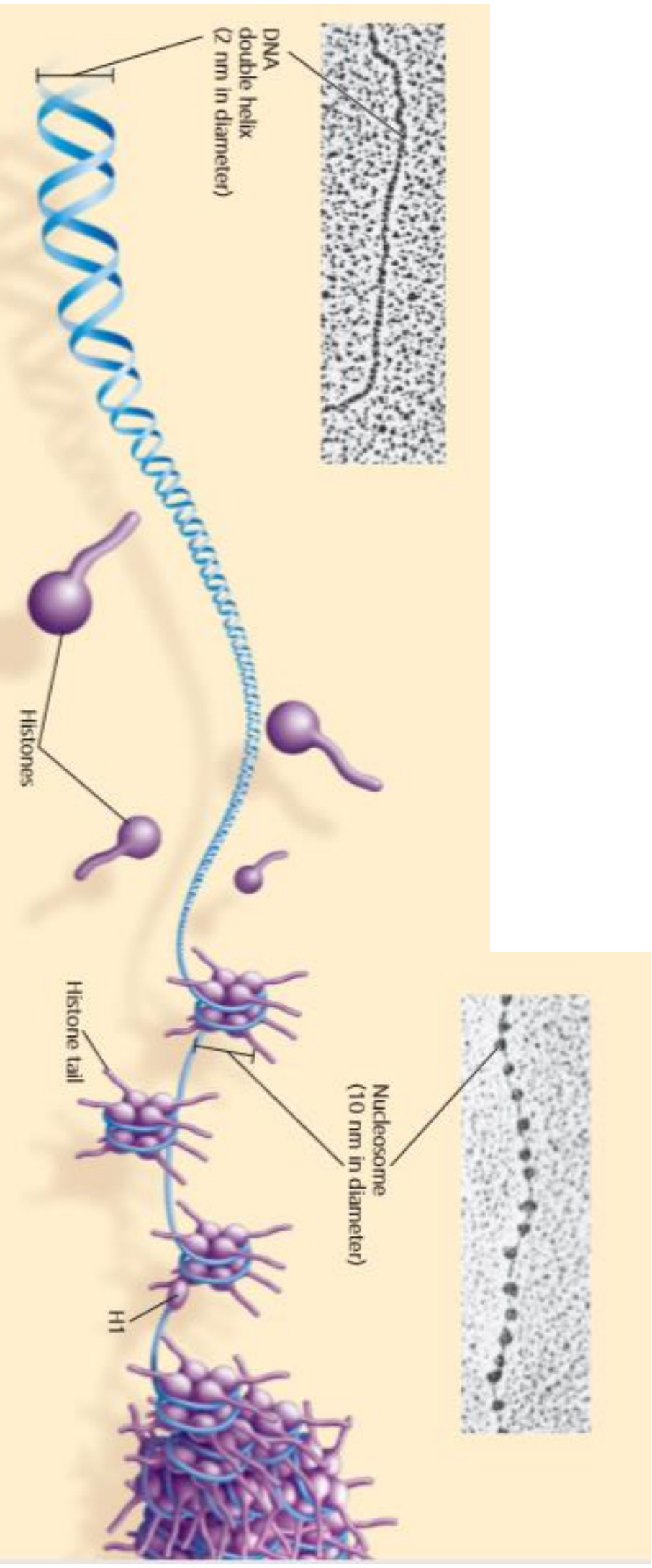


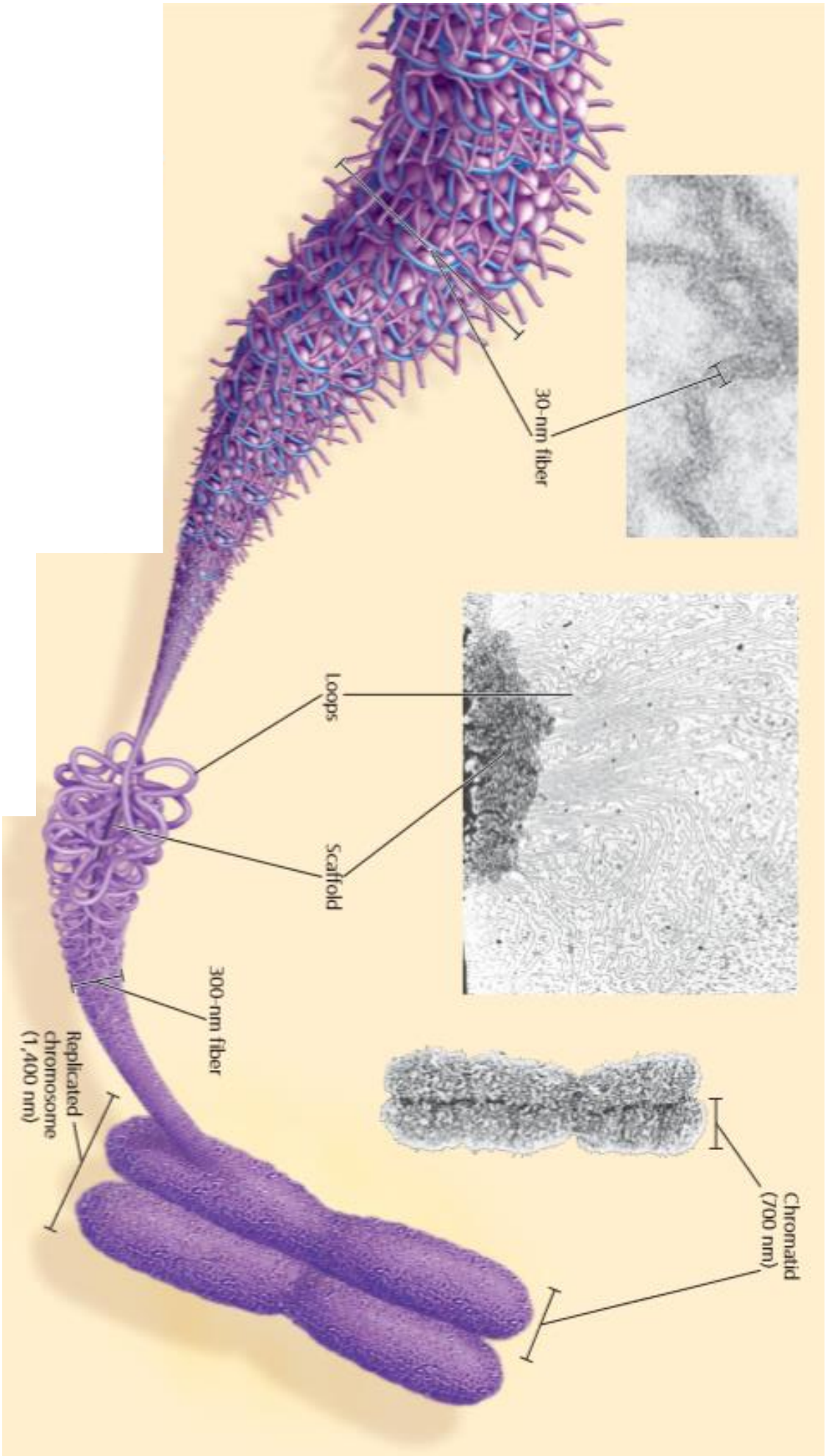
Double Heliks



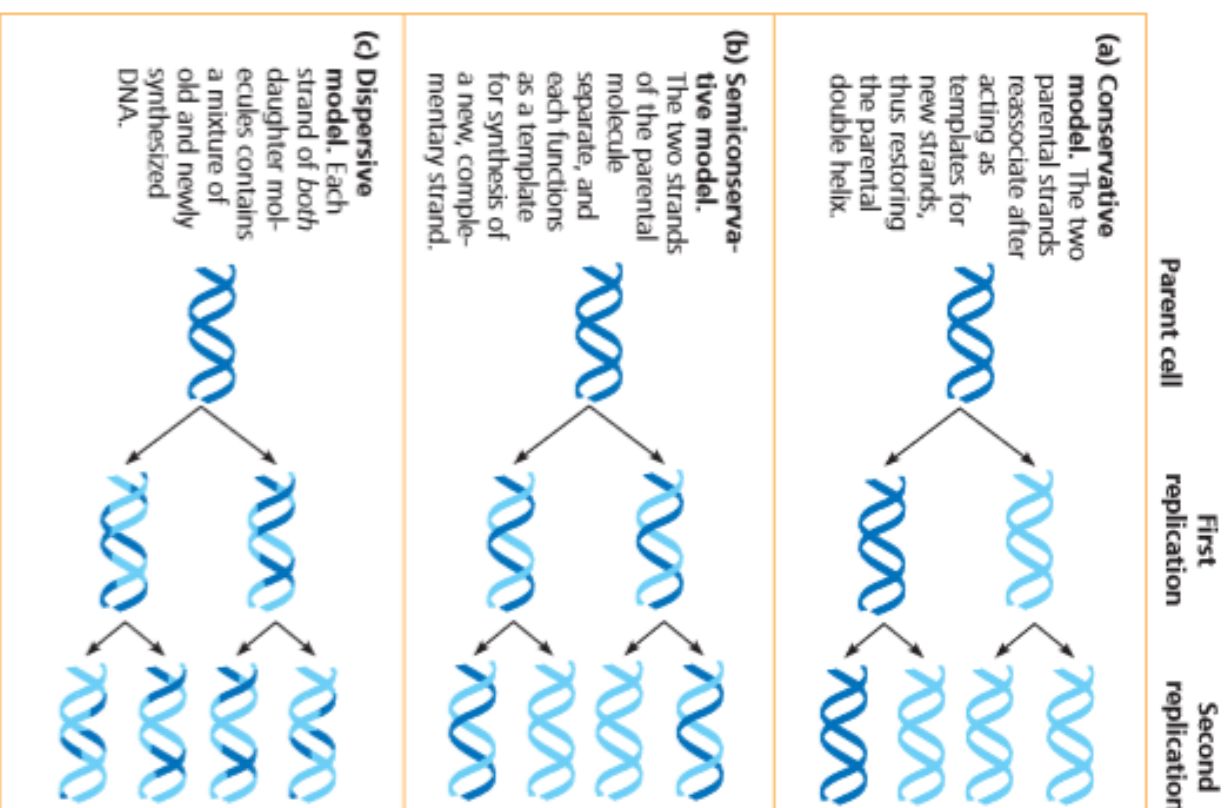


▲ **Figure 16.8 Base pairing in DNA.** The pairs of nitrogenous bases in a DNA double helix are held together by hydrogen bonds, shown here as black dotted lines.

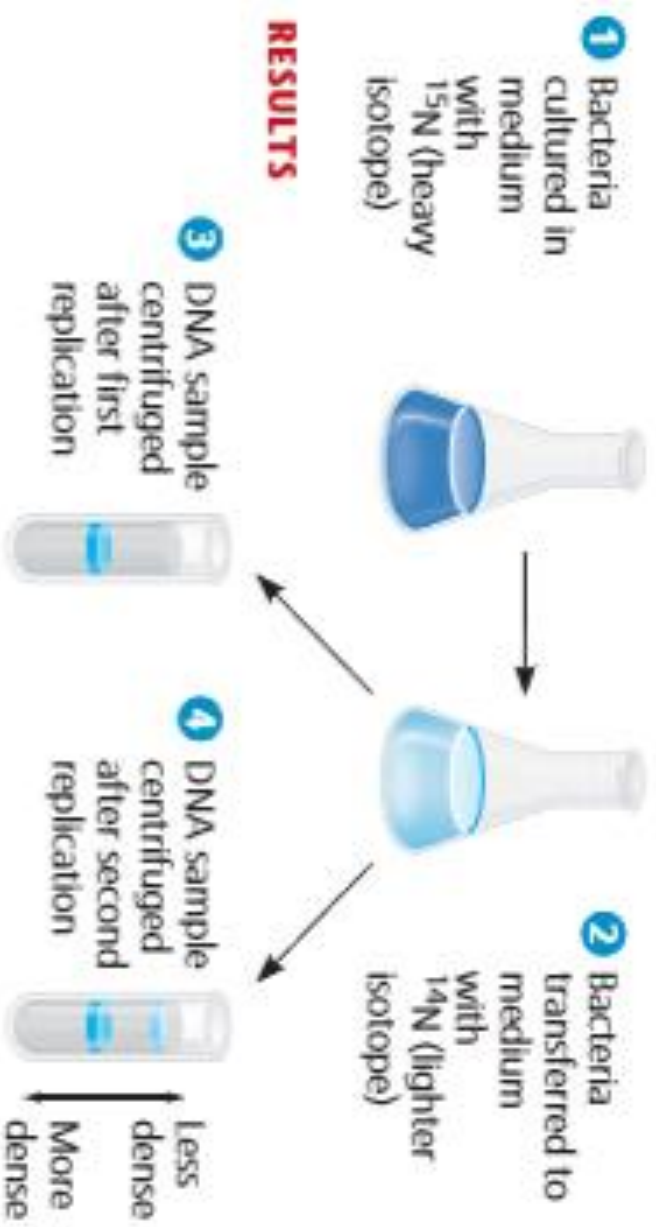




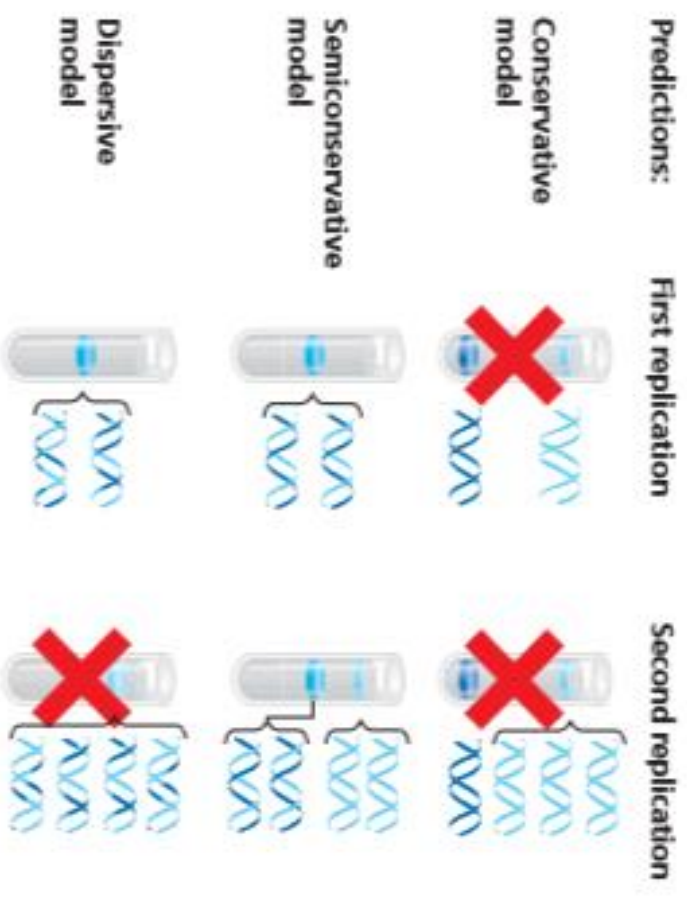
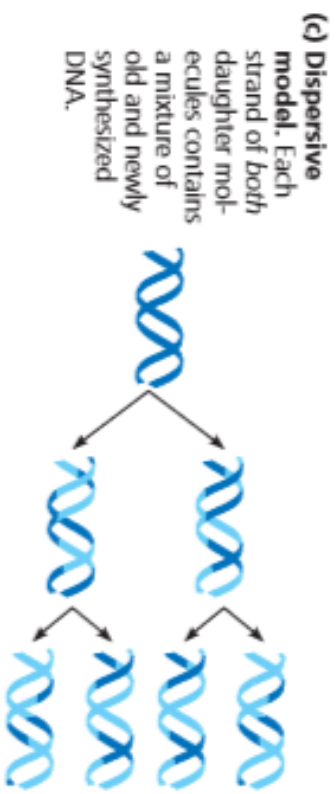
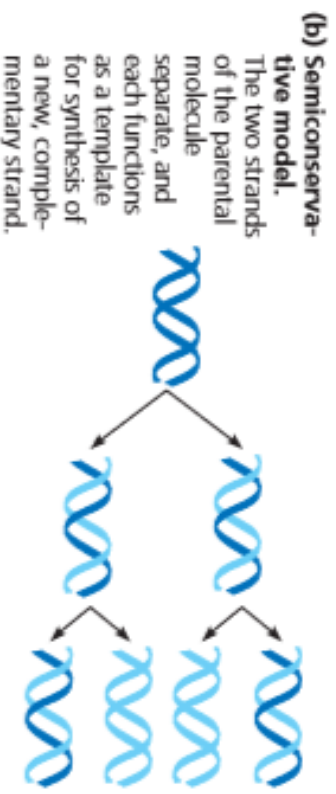
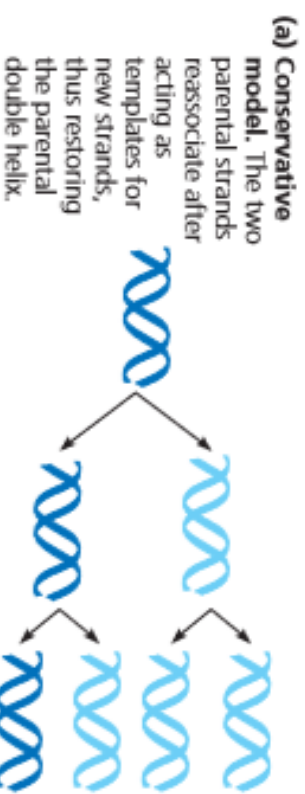
Replikasi DNA



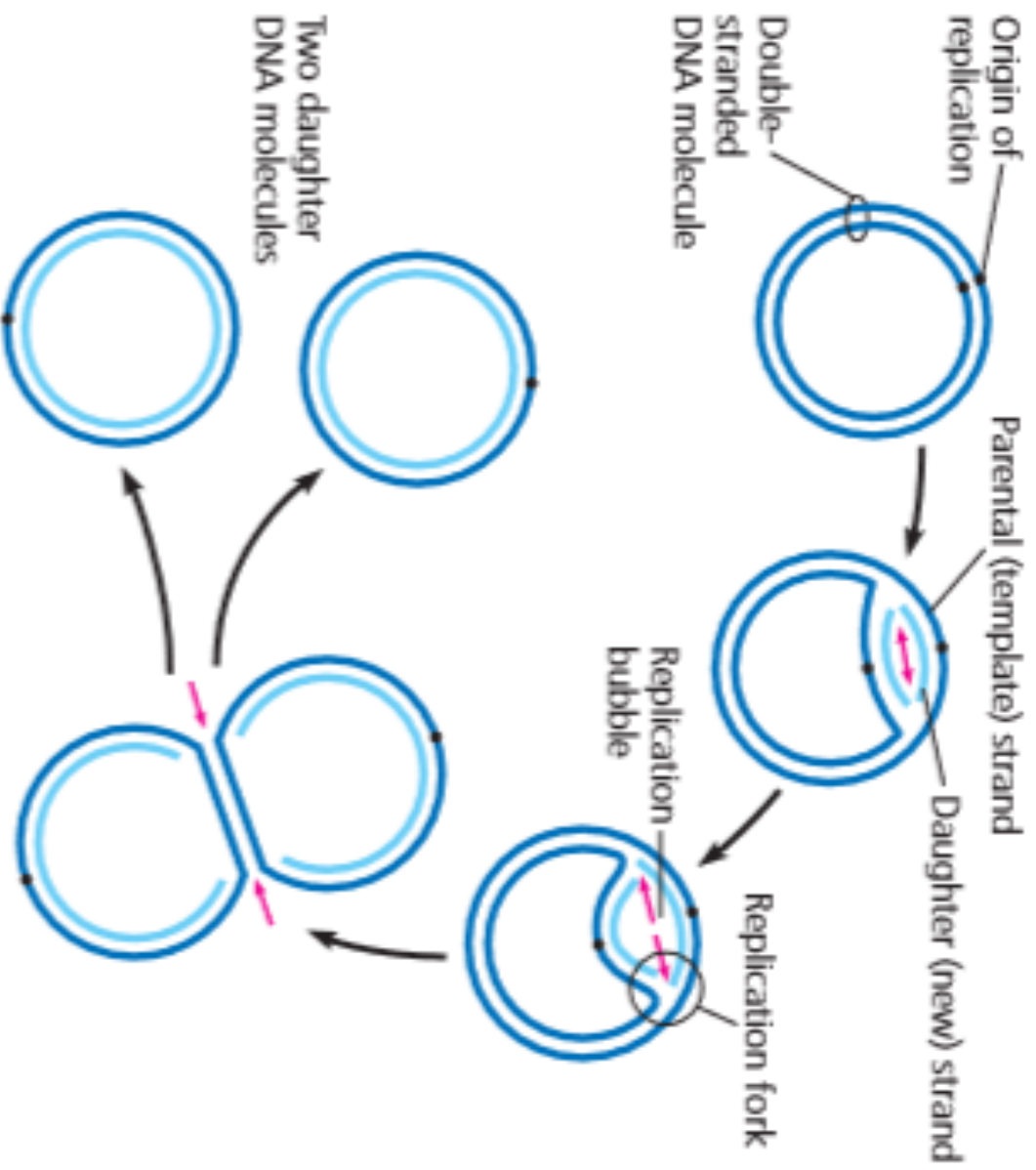
Pembuktian



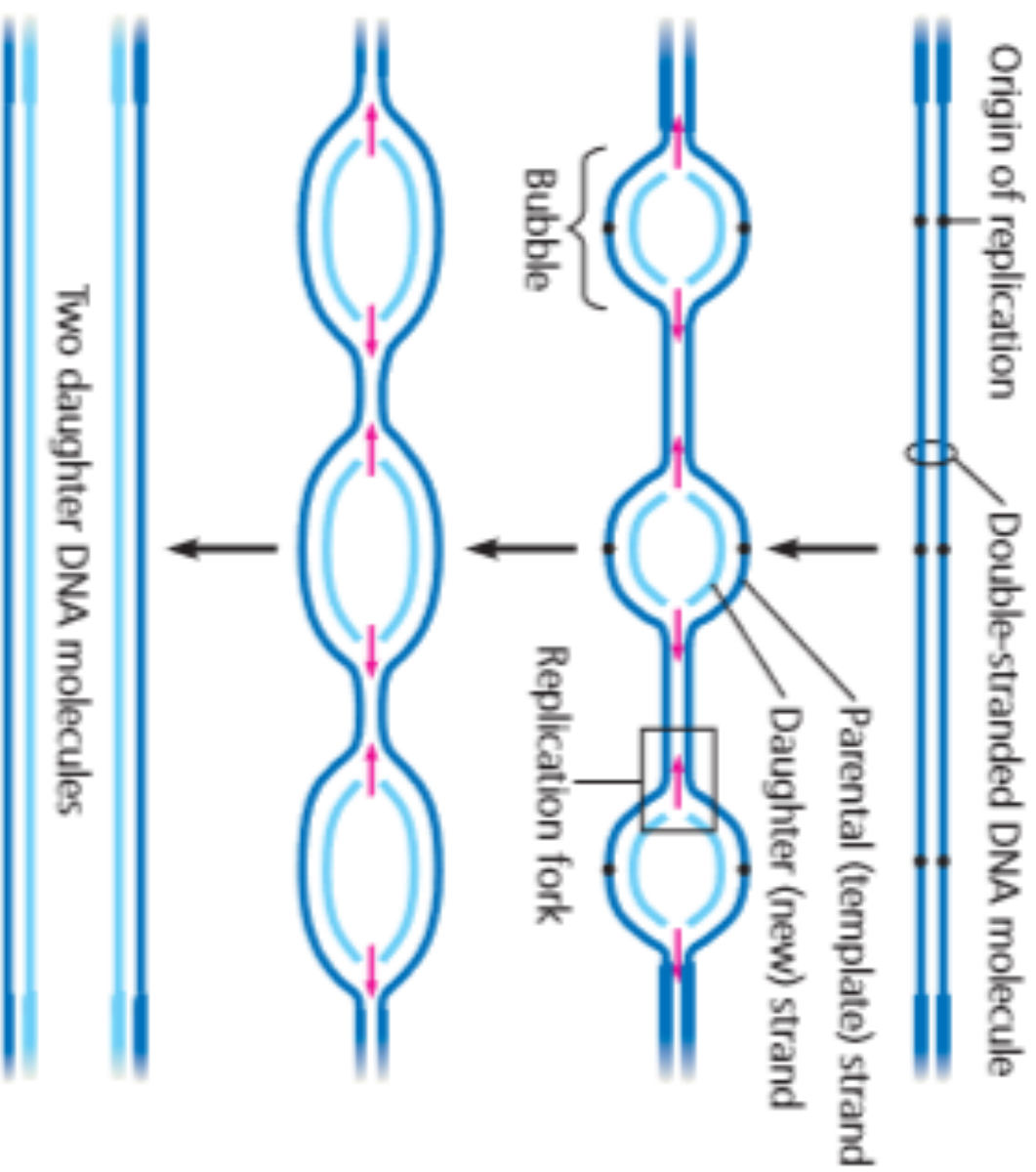
Parent cell First replication Second replication



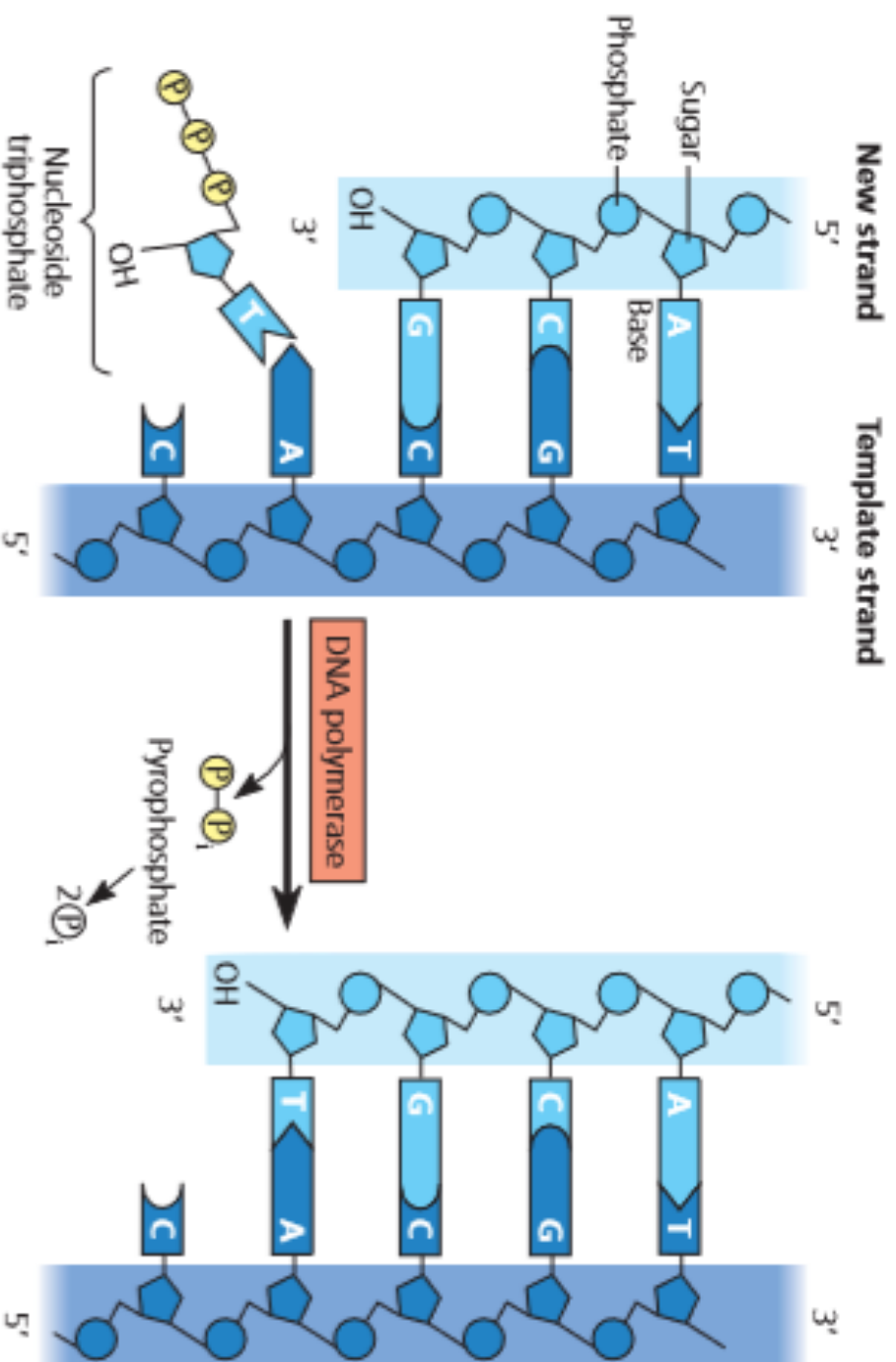
(a) Origin of replication in an *E. coli* cell

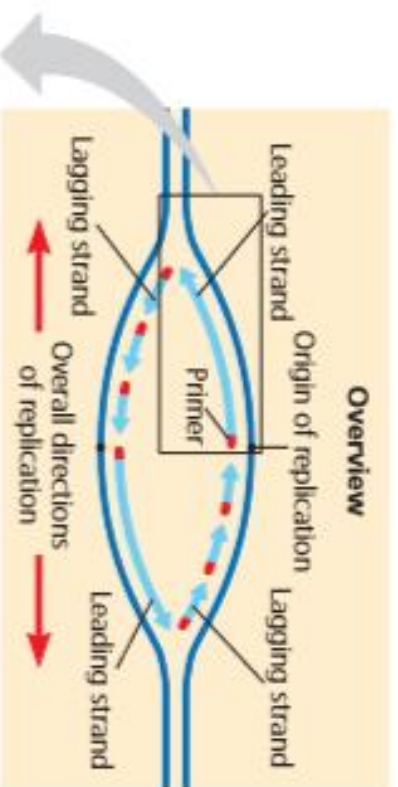


(b) Origins of replication in a eukaryotic cell

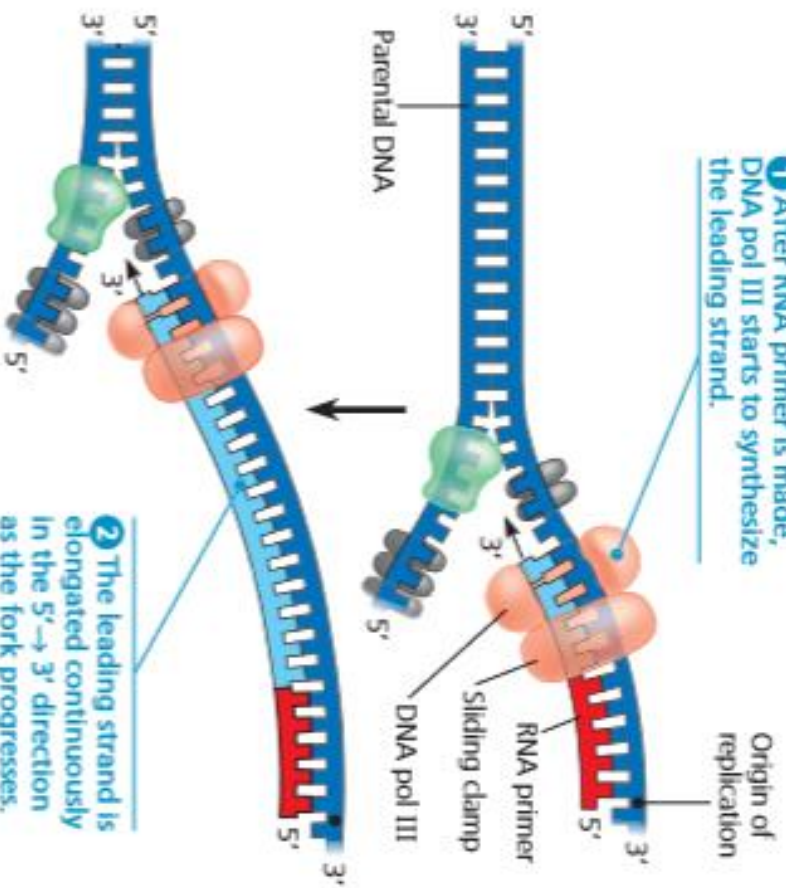


DNA polymerase menambahkan nukleotida pada ujung 3'





1 After RNA primer is made, DNA pol III starts to synthesize the leading strand.



2 The leading strand is elongated continuously in the 5' → 3' direction as the fork progresses.