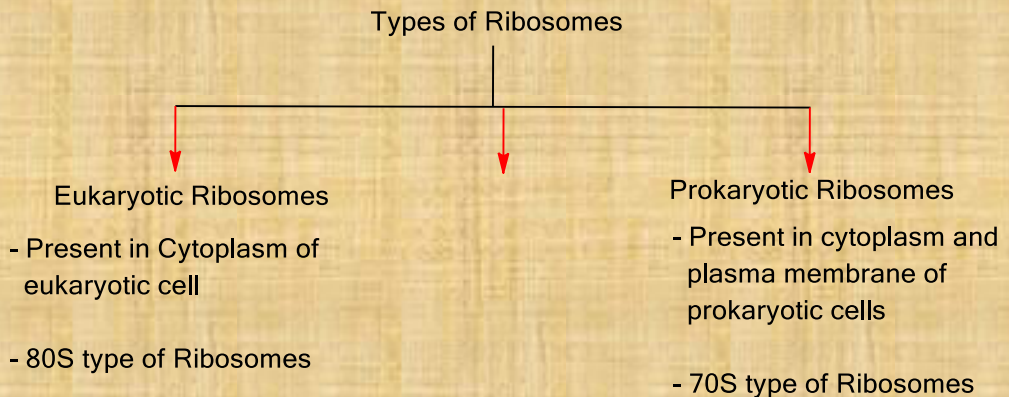


Chapter 8

CELL-THE UNIT OF LIFE

Ribosomes (Observed by Palade):

1. Granular structures observed under electron microscope by George palade(1953).
2. Composed by RNA and proteins but not enclosed by any membrane.
3. Smallest cell organelle.
4. Except mammalian RBC, all living cells (prokaryotes and eukaryotes) have ribosomes.
5. Ribosomes are also called as engine of the cell/protein factory of the cell.



Where S - Svedberg unit
(It is indirect measure of density & size)

Each Ribosome contain of two subunits i.e. larger & smaller subunits.

$$80\text{S} = 60\text{S} + 40\text{S}$$

$$70\text{S} = 50\text{S} + 30\text{S}$$

70S type of Ribosomes are present in mitochondria & chloroplast of cell

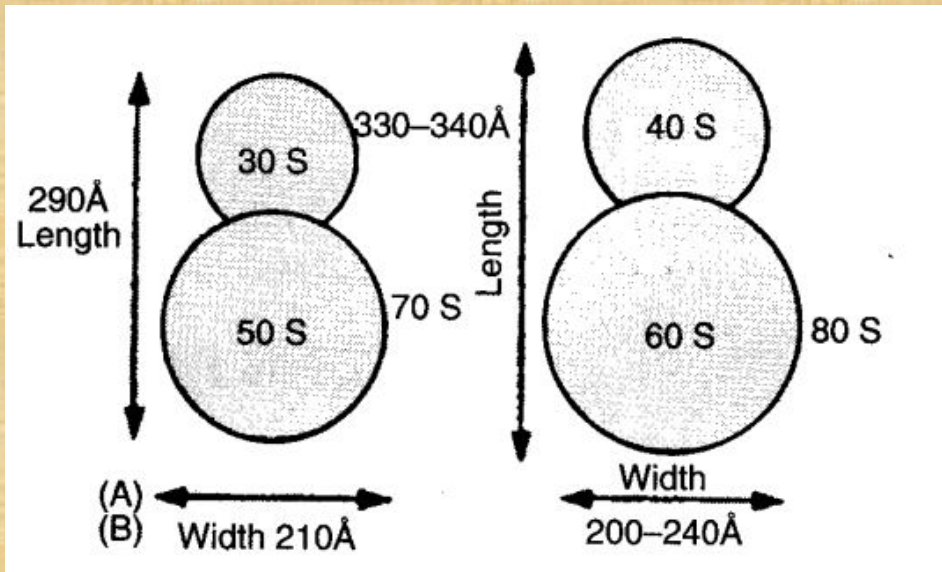


Fig. Structure of 70S and 80S Ribosomes