

		Prokaryotic	Eukaryotic	
Organelle	Function		Animal Cell	Plant Cell
Nuclear Envelope				
Nucleolus				
Chromatin				
Chromosome				

Structure and components of the nucleus 1.

1.

2.

3.

In all living cells, DNA molecules are the storehouses of information about heritable traits.

DNA:

Structure of a nucleotide: 1.

2.

3.

a.

b.

c.

d.



Discovery of the structure of DNA

- Erwin Chargaff (1940's and early 50's):
 - Chargaff's Rule:
- Maurice Wilkins and Rosalind Franklin (early 50's):



• James Watson and Francis Crick (1952):

Positioning of DNA nucleotides

• 5' to 3' positioning of chains of DNA:

• Double helix: