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[Difference Between Prokaryotic And Eukaryotic Cell Pdf](#)

[An Essay on the Differences between Prokaryotic & Eukaryotic cells](#)

All cellular organisms fall into two natural groups, known as prokaryotes and eukaryotes. These two groups are fundamentally different. The same prokaryotes and eukaryotes refer to the differences in the location of the DNA. In prokaryotes the DNA is not enclosed by nuclear membranes and lies free in the cytoplasm. The cells therefore lack true nuclei. The cells of eukaryotes, however, do contain true nuclei.

Eukaryotes arose around 1.2 thousand million years ago, and they evolved from prokaryotes which began around 3.5 thousand million years ago.

Although the location of the DNA in the cells is the major difference between the cell types, there are many more differences, which are explained below.

The sizes of the cells are vastly different, in prokaryotes the average diameter of the cell is 0.5-1µm. However, eukaryotic cells are much larger in comparison, they are typically 1000-10000 times the volume of prokaryotic cells, and their common diameter is 10-100µm.

Prokaryotes mainly arise in unicellular forms and examples of organisms that are prokaryotic is bacteria. Eukaryotes on the other hand arise in multicellular forms and examples of eukaryotic celled organisms are fungi, plants, animals and the exception which are protists as many of them are unicellular.

As mentioned above the DNA lies free in the cytoplasm of prokaryotes, and lies free and in a nucleus in eukaryotes. However, in prokaryotes the DNA is naked and therefore is not associated with proteins or RNA to form chromosomes. While in eukaryotes the DNA is not naked and is associated with proteins & RNA to form chromosomes.

In the two types of cells the ribosomes which are used in protein synthesis are slightly different, in prokaryotic cells the ribosomes are 70S and smaller than the 80S larger ribosomes in eukaryotic cells.

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