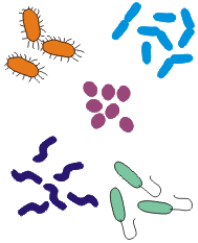


# Monera

Created: Friday, 29 July 2011 04:34 | Published: Friday, 29 July 2011 04:34 | Written by [Super User](#) | [Print](#)

## The Kingdom Monera



The Kingdom Monera consists of all [Prokaryotes](#), which are unicellular in nature. As the centuries passed by organisms were classified by scientist based on their structures and the Kingdom Monera came into existence.

### Prokaryotes:

They all are microscopic organisms with a diameter of 0.1mm which can be seen only through an electron microscope. Monera have primitive structures where the nucleus is incomplete. They are called prokaryotes because they lack nuclear membranes in the body. They are divided into [Eubacteria](#) and [Archaebacteria](#). The groups are genetically different from each other as they are from the [Eukaryote](#).

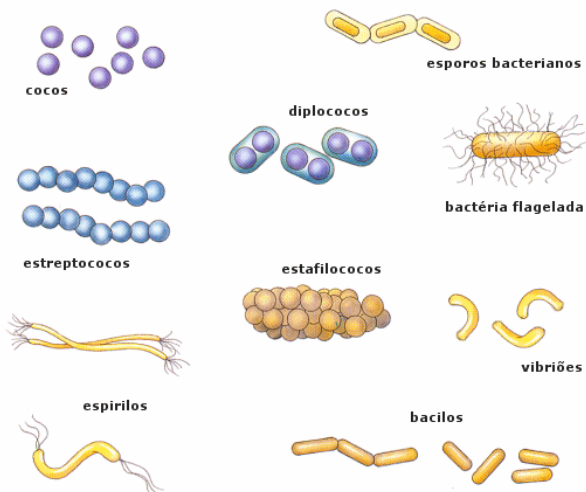
### Characteristics of Monera:

Physically archaebacteria and eubacteria differ as the cell membranes are chemically different.

#### Archae bacteria:

- Live in unfavorable conditions, and they live in saline water.

#### Eubacteria



- Live on the surface of the soils and intestinal tracts of the termites.

- They are extremely minute organisms. An example is bacteria. Bacteria can be found in the air, soil, water--everywhere in the

environment.

- We can find more bacterial cells inside your intestine and on your upper layer of the skin than there are cells in your entire body. You can try to wash but how many ever times you do it's impossible to clean them all off.
- They spread several kinds of diseases in human, animals and plants.
- Bacteria are microscopic, single celled organism with single cellular chromosome within the cytoplasm with no nucleus.
- The locomotive organ of these organisms is flagella.
- Nutrition in [autotrophs](#) is photosynthetic and chemosynthetic. In heterotrophs they are parasites saprophytes or mutualistic.
- Binary fission is generally seen in bacteria. Bacteria need adequate PH solute concentration in its external surroundings for itself to grow. The photoautotrophs fix nitrogen from the atmosphere so that the roots can absorb nitrogen. [Saprophytes](#) break live on dead and decaying matter.
- Circulation of Kingdom Monera is through diffusion.
- Respiration is generally by obligate aerobes in the presence of oxygen. Sometimes it can be due to obligate anaerobes, too, without the presence of oxygen.
- The organisms of the Monera kingdom reproduce asexually by [binary fission](#) and sexually by [conjugation](#)
- Some organism in the Monera Kingdom is beneficial as they decompose dead and decaying matter and some are harmful because they spread diseases. Organisms of Kingdom Monera have the simplest structures and are thought to be the first form of life the evolved on Earth.

## What is the difference between a prokaryotic and eukaryotic cell?

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### Reference Links:

- <http://en.wikipedia.org/wiki/Monera>
- <http://en.wikipedia.org/wiki/Protist>
- <http://en.wikipedia.org/wiki/Protozoa>
- [http://en.wikipedia.org/wiki/Biological\\_classification](http://en.wikipedia.org/wiki/Biological_classification)
- <http://www.youtube.com/watch?v=k7uBYmL40bY>

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