**Organelles and Structures**

Cytoskeleton

The cytoskeleton helps the cell keep its shape. Its main job though is to control internal movement of cell organelles, as well as cell locomotion and muscle fiber contraction. The cytoskeleton is made of microtubules and microfilaments.

 

Nucleus

The nucleus stores the cell's genetic information, it is much like a brain of the cell. It is enclosed in a double membrane and communicates with the cell through nuclear pores.



Nucleolus

The nucleolus produces ribosomes the go onto the rough endoplasmic reticulum. The nucleolus is found inside the nucleus.



Endoplasmic Reticulum

The endoplasmic reticulum (E.R.) produces, processes, and distributes proteins. There are two types of endoplasmic reticulum, the rough endoplasmic reticulum and smooth endoplasmic reticulum. The rough E.R has a pebbled look because of ribosomes present on the surface, the proteins from these ribosomes are collected in the rough E.R. and are transported throughout the cell. The smooth E.R. plays different roles depending on the specific type of cell. The smooth E.R. appears smooth and is a continuation of the nucleus.

