## **Organs and Organ Systems to Organelles**



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## Organs and Organ Systems to Organelles

The human body consists of many different organs and organ systems, which are made up of billions of cells. Inside these cells there are "tiny organsâ€,or organelles. These organelles act in many ways like the organs and systems of the body. To better understand the relationship between them, I am going to compare and contrast their differences and their similarities. The brain is the control center of the human body. It sends and receives messages to the rest of the body. The brain is made up of many different parts, and each part has its own job. The nucleus of a cell is very similar to the brain because it is the control center of the cell. It too sends and

receives messages, only throughout the cell. The nucleus is made up of many

other parts, which have all have special jobs also. The brain and nucleus are alike in several ways, but contrast in one primary area. The brain sends messages by <u>neurons</u> and

electric impulses, while the nucleus does it by means of messenger RNA.

The body has a shape that is contributed to by the muscular and skeletal

systems. Bones provide the body with framework, and the muscles allow

movement. The cell has similar organelles, the cytoplasm and the

microtubules, which provide the cell with form. The microtubules are

tube-like structures that act like bones do in humans, they give shape and

support to the cell. The cytoplasm is a jelly-like substance that keeps

things in place, and restricts the

movement of organelles in the cell. The main difference between them is the fact that microtubules arenâ€<sup>™</sup>t joined by anything like a <u>ligament</u> or a tendon and cytoplasm doesnâ€<sup>™</sup>t contract like muscles do.

The digestive system of the human body is made up of several organs that work together to break down food so it can be used in the body. Similar organelles in the cell are endoplasmic reticulum, ribosomes, and the golgi body. Endoplasmic reticulum is used in the synthesis of molecules entering the cell. The ribosomes produce protein and send them to the places in the cell that needs it.

The golgi body is the "packaging siteâ€. All three of thes organelles play an important role in processing molecules in the cell. Other Arcticles:

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