

Section 8-2: Cell Structure

Cell Organization

Eukaryotic cells are a complex and busy place, but if you look closely, there are patterns that emerge. Each cell can be divided into two major parts: the nucleus and the cytoplasm.

- The **cytoplasm** is the portion of the cell outside the nucleus. It is made up of water and dissolved chemicals. Prokaryotic cells (that do not have a nucleus) also contain cytoplasm.
- Within the cytoplasm are several structures that act as if they are specialized organs. They are called **organelles**, which means "little organs".



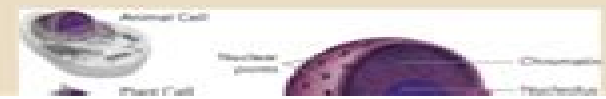
The Nucleus

In the same way that the main office controls a large factory, the **nucleus is the control center of the cell**. The nucleus contains nearly all the cell's DNA and, with it, the coded instructions for making proteins and other important molecules.

The nucleus is surrounded by a nuclear envelope.

- The nuclear envelope is dotted with thousands of nuclear pores, which allow material to move into and out of the nucleus.
- A steady stream of proteins, RNA, and other molecules move through the nuclear pores to and from the rest of the cell. This is just like messages, instructions and blueprints moving into and out of a main office.

Chromosomes, which carry the cell's genetic information are found in the nucleus. Most of the time, chromosomes are spread out throughout the



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Daniela Niemeyer

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