

Cells: The Good, the Bad, and the UGLY! NTS

Part I: Basic Cell Parts in Cell Division

The four main parts involved in cell division are:

- 1) cell membrane - its main function is to control what comes in & out of the cell.
- 2) nucleus - the control center that contains DNA, which gives the basic instructions for making proteins, which make up cells for the organism.
- 3) Centrioles - organelles in the cytoplasm that help in cell division.
- 4) microtubules - act as the skeleton of the cell and help in cell division.

Part II: Why do cells divide?

The reason that cells divide is that

As a cell gets bigger, the outside is unable to keep up with the inside, because the inside grows at a faster rate, so the cell membrane cannot give it needs to survive. So, they must split.

Part III: What happens during mitosis?

The main functions of mitosis are:

- 1) Growth
- 2) Repair

Part IV: Go to www.bubbl.us to make a concept map to explain the information you have learned today. Print it or email it.

Part V: Formulate 5 questions for an expert about out of control mitosis. Star your top 3.

- ★ 1) What causes cells to divide too fast?
- 2) are certain types of cancer deadlier than others?
- ★ 3) Why is cancer so deadly?
- 4) What is the least common cancer?
- ★ 5) What happens in smoking that causes cancer?