

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 larger, the outside is unable to keep up with the inside because the inside grows at a faster rate than the outside.

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) How many times can it divide in one day?
- 2) What is the youngest age that you can get cancer.
- 3) How does products like cigarettes cause the cells to divide so many times.
- 4) What tests do you run in the lab to determine if someone has cancer.
- 5) What happens if cells just suddenly stop dividing and when they stop they stop forever?