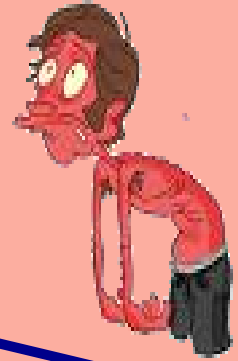


Why must cells divide? pg 148

Everyone has had a really bad sunburn, the kind that causes your skin to peel. Imagine that damaged skin that you remove was not replaced with new skin. Or everytime you cut yourself, your skin didn't heal!



We rely on **cell division** to perform several functions:

- 1) Healing and Tissue Repair
- 2) Growth
- 3) Reproduction of Organisms

Every second, millions of your cells are injured or die.

DUST

We shed about 1.5 pounds of skin cells per year. It takes about 30 days to shed our outer layer of skin.

Cell Division Pg 150

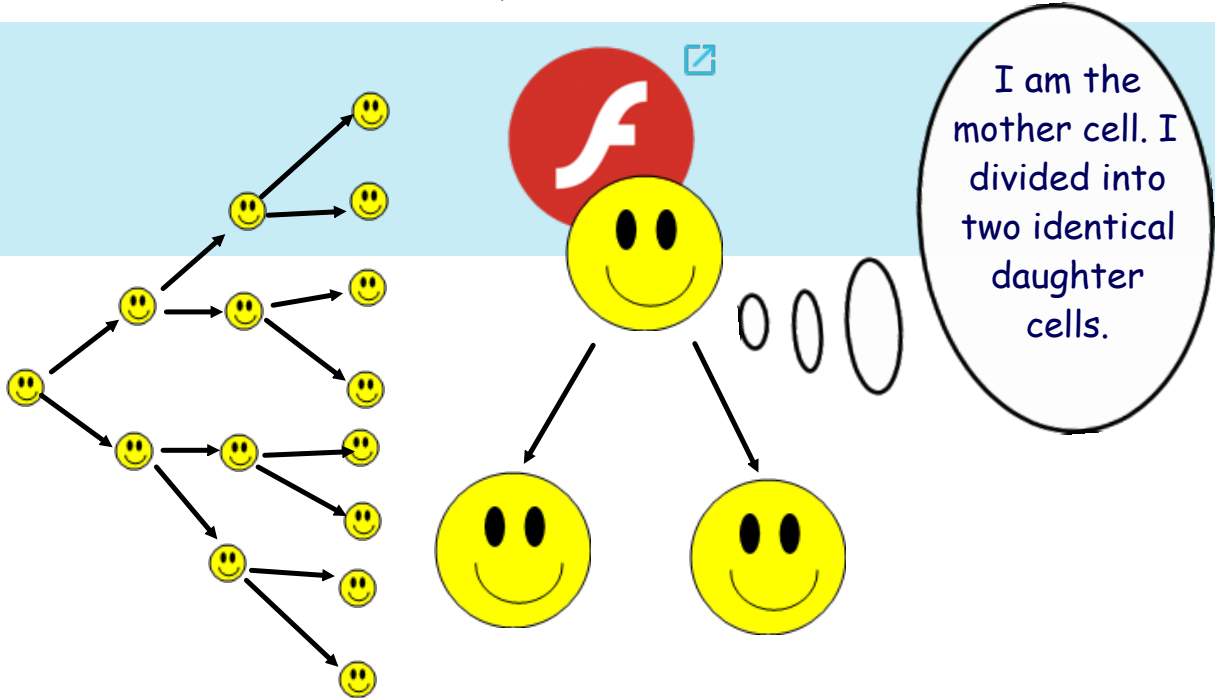
Your life began as a single cell, the fertilized egg (**zygote**). Nine months later, when you were born, trillions of cells made up your body



How did one cell become trillions of cells?

Cell Division

All cells come from preexisting cells through cell division.
Cells divide into two, then each into another two cells.



The Cell Cycle

Cells divide and rest. The sequence of event from one division to the next is called the **cell cycle**. For most cells, cell division is a small part of the cells life. The stage between cell division is called **interphase**.

