

Importance of Cell Division

- The 3 functions of cell division are:

1) Healing & Tissue Repair

Every second **millions** of your body's cells are injured or die! If cells didn't divide.....

- **cuts wouldn't heal**
- **broken bones wouldn't heal!**

You would get sick and die. ☹️

2) Growth

- As the number of cells increases, **the organism grows and gets bigger.**
(remember why cells stay small!)
- Growth of all living organisms depends on **cell division.**
- Most cells are **small** and of relatively **constant size.**

3) Reproduction (making offspring)

- Cell division maintains life.
- Cell division of unicellular animals creates a 2nd organism (simple) **asexual reproduction**
- Others require the production of a sperm (male) and egg (female) and they must meet. **sexual reproduction**
Egg/sperm are called '**gametes**' and together form a full and complete cell.

Moving stuff in & out of cells

Plants & Animals all need the same things:

- #1 source of energy (nutrients)
- #2 water
- #3 gases
- #4 get rid of waste

This movement
takes time and
smaller cells do this
quicker!

Sketch and label Fig. 4 from textbook.