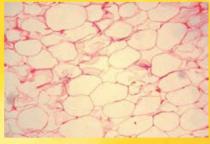
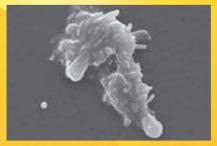


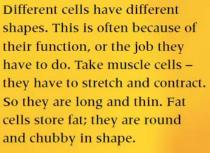
Cells are the basic unit of life for all living things. They come in all sorts of sizes, shapes and have all sorts of functions.



FAT CELLS

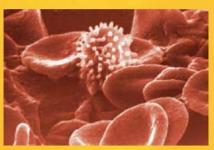


AMOEBA





CAMPYLOBACTER ORGANISM



WHITE AND RED BLOOD CELLS



BONE CELLS



MUSCLE CELLS



STOMATA CELL



NERVE CELLS









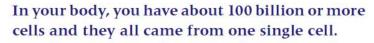
## Background:

Everything going on in the cell is controlled by the nucleus. The instructions are coded in the chromosomes which are mostly made of DNA. Each chromosome is made of smaller parts called genes which carry the instructions. Every cell in an organism

contains the same set of instructions. The nucleus also has another job.

It is the key

player in cell division.



All organisms grow and reproduce in a similar way.

Can you think why we are not just made of one giant cell?

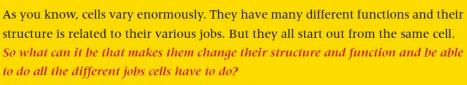
Cells communicate by using chemicals. These chemicals have to move through the cytoplasm. The nucleus tells the cell what to do. It has to get the message from the outside and then send out a message to the organelles

in the cell, to respond. Cells are small compared to the body

as a whole so the messages reach the control centre very quickly. All the cells in your body came from one cell. That cell had to undergo division

into two cells.

Then those two divided into two each and so on, until there were enough cells to make up what has become you. You are in fact constantly replacing cells as they grow old and die.



Many people work on the research into this question.







