

Oct 14, 2011

1) Stem Cells

Warm- Up:

Give one reason why human limbs cannot regenerate?

Specialization and DNA pg 187

The nucleus of every cell has DNA. DNA is made up of the same materials.

Why then do we have different kinds of cells i.e. skin and nerve cells?

Each cell uses different parts of their DNA. They are given orders by different genes.

One example: A nerve cell no longer needs information to make skin color. The genes that are not needed are turned off.

Stem Cells in Humans pg 187



Stem cells are cells with little specialization. They are able to divide many times and they specialize into something like a muscle or nerve cell.

Human skin, bone marrow, contains stem cells. This is why we can grow new skin cells, but not new nerve cells.

Research is being done now on stem cells. They are looking for ways to repair cells that can not be replaced.

Complete the following questions:

Pg 181 #1,2,3

Pg 183 #1,2

Pg 187 1,2,3,4