PLANT CELL DIFFERENTIATION AND SPECIALIZATION

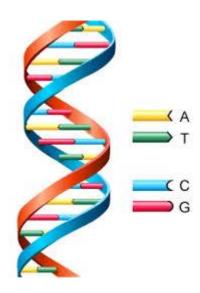
CELLULAR REPRODUCTION

How do cells reproduce?

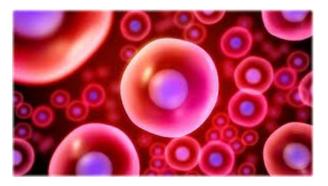
- The cell receives instructions from
 DNA
- <u>DNA</u>= <u>Deoxyribonucleic</u> <u>Acid</u>
 - THE INSTRUCTIONS FOR THE CELL!



1) Nearly all <u>cells</u> in our body have the same <u>DNA</u>.



2) Cells start as an <u>undifferentiated</u> group of cells called <u>stem cells</u>



3) Variation in <u>DNA activity</u> leads to cell <u>differentiation</u>



4) Cell differentiation leads to <u>specialization</u>



5) This means that the cell can become any <u>type</u> of cell that the body needs!



6) Example: A cell can become a <u>muscle cell</u> or a <u>red blood cell!</u>





PLANT CELL DIFFERENTIATION & SPECIALIZATION

<u>Differentiation</u>- cells change to perform a specific function

Specialization - this specific function that the cell performs

wiseGEEK

Why? To help another tissue or organ

CELL DIFFERENTIATION & SPECIALIZATION

The plant cells undergo differentiation and specialization to produce cells with special functions

