

*function, stem, unspecialised, type*

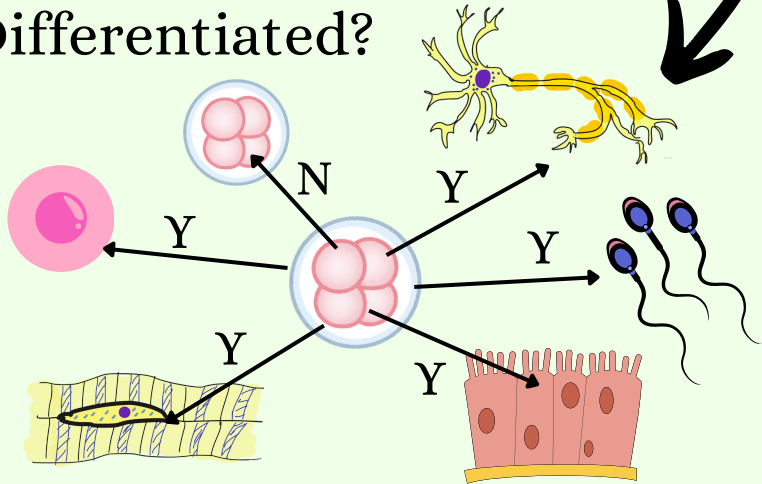
Unspecialised cells have not yet got a specific function and can become any type of cell. These are known as stem cells.

Definition of differentiation

## Overview

The process a cell goes through to go to become specialised.

Differentiated?



## DIFFERENTIATION



### In animals



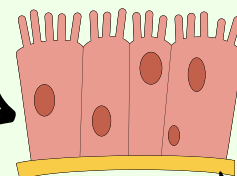
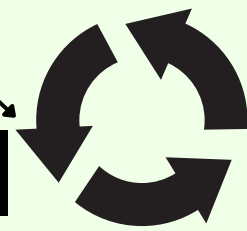
Most cells differentiate in early development



Repair



Replace



Cannot redifferentiate if moved.

### In plants

Cells not yet differentiated are formed at the meristems.

stems

roots



Can redifferentiate, this means:

A differentiated cell can move to another part of the cell and become a new type of cell.

Can produce identical offspring. A process called: cloning

Cell division process mitosis

