

Inheritance, Variation & Evolution Revision

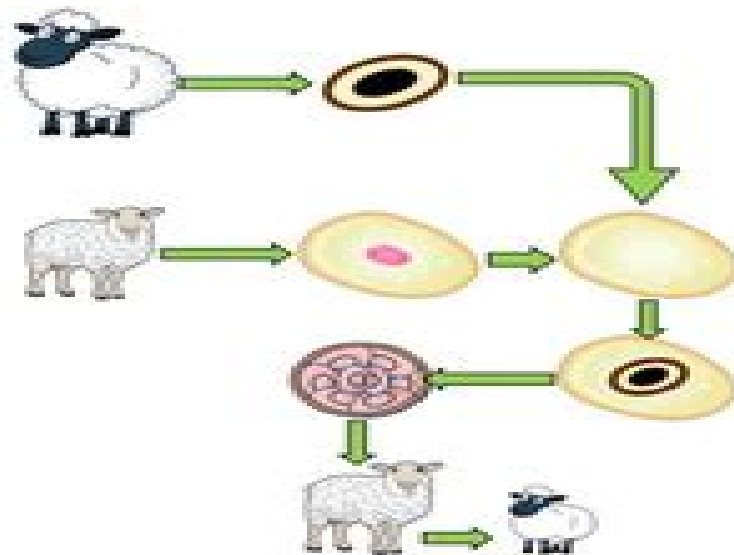
understand

Use the information to annotate the diagram below

Fusion cell cloning

Fusion cell cloning involves replacing the nucleus of an unfertilised egg with the nucleus from a different cell. The replacement nucleus can come from an embryo, but if it comes from an adult cell, it is called adult cell cloning. Here's how she was produced:

1. An egg cell was removed from the ovary of an adult female sheep, and its nucleus removed.
2. The nucleus from an udder cell of a donor sheep was inserted into the empty egg cell.
3. The fused cell then began to develop normally, using genetic information from the donated DNA.
4. Before the dividing cells became specialised, the embryo was implanted into the uterus of a foster mother sheep.



Environmental causes of variation

Characteristics of animal and plant species can be affected by factors such as climate, diet, accidents, culture and lifestyle. For example, if you eat too much you will become heavier, and if you eat too little you will become lighter. A plant in the shade of a big tree will grow taller to reach more light.

Other examples of features that show environmental variation include:

- scars
- language and accent
- flower colour in hydrangeas as these plants produce blue flowers in acidic soil and pink flowers in alkaline soil

Genetic and environmental causes together

Some features vary because of a combination of genetic and environmental causes. For example, tall parents will pass genes to their children for height. Their children have the genetic potential to also be tall. However, if their diet is poor then they will not grow very well: their environment also has an impact on their height.

Highlight key words or phrases

Genetic causes of variation

Children generally look a little like their mother and their father, but are not identical to either. They inherit their features from each parent's DNA.

Every sperm and egg cell contains half of the genetic information needed for an individual. Each sex cell is known as haploid, which has half the normal number of chromosomes. When the chromosomes fuse during fertilisation, a new cell is formed, which is known as a zygote. It has all the genetic information needed for an individual, which is known as diploid and has the full number of chromosomes.

Examples of genetic variation in humans include blood group, skin colour and natural eye colour. Biological sex is also an inherited variation - whether you are male or female is a result of genes you inherited from your parents.

Science Of Inheritance Section Review Answers

M Lipman



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