Biotechnology Study Guide_

There is a widely used herbicide (weed killer) called Roundup. Roundup kills any plant that
it touches. Scientists have genetically altered soybeans and other crop plants to create
"Roundup Ready" strains that are not killed by Roundup. By planting Roundup Ready seeds,
a farmer can control weeds by spraying Roundup right over the crop. The crop completely
ignores the herbicide, but the weeds are eliminated.

This technique is known as

- In terms of genes, how does a clone compare to its parent?
- What type of reproduction do clones undergo?
- What type of cell division do clones undergo?
- Use the diagram below, to answer questions a -d.
 - a. Name the process represented by the diagram.
 - b. What cuts/joins the DNA (represented by A)?
 - What type of reproduction is illustrated by process B?
 - State one way the process illustrated above has been beneficial to humans.



- 6. Why have scientists not yet cloned a human?
- Today, scientists insert genes from humans into a bacterium. The bacterium then produces a protein directed by the code found on the inserted human gene.

This procedure is known as ___

 About 8,000 years ago, farmers in Central America crossed two mutant strains of a weedylooking plant called Balsas teosinte and produced the first corn on the cob. Since then farmers have kept the seeds from the best crops and planted those the next season. This has allowed corn to develop into the corn we eat today.

This technique is known as

9. Define the term Recombinant DNA.

Biotechnology Study Guide Answers

Arshad Iqbal

Biotechnology Study Guide Answers:

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