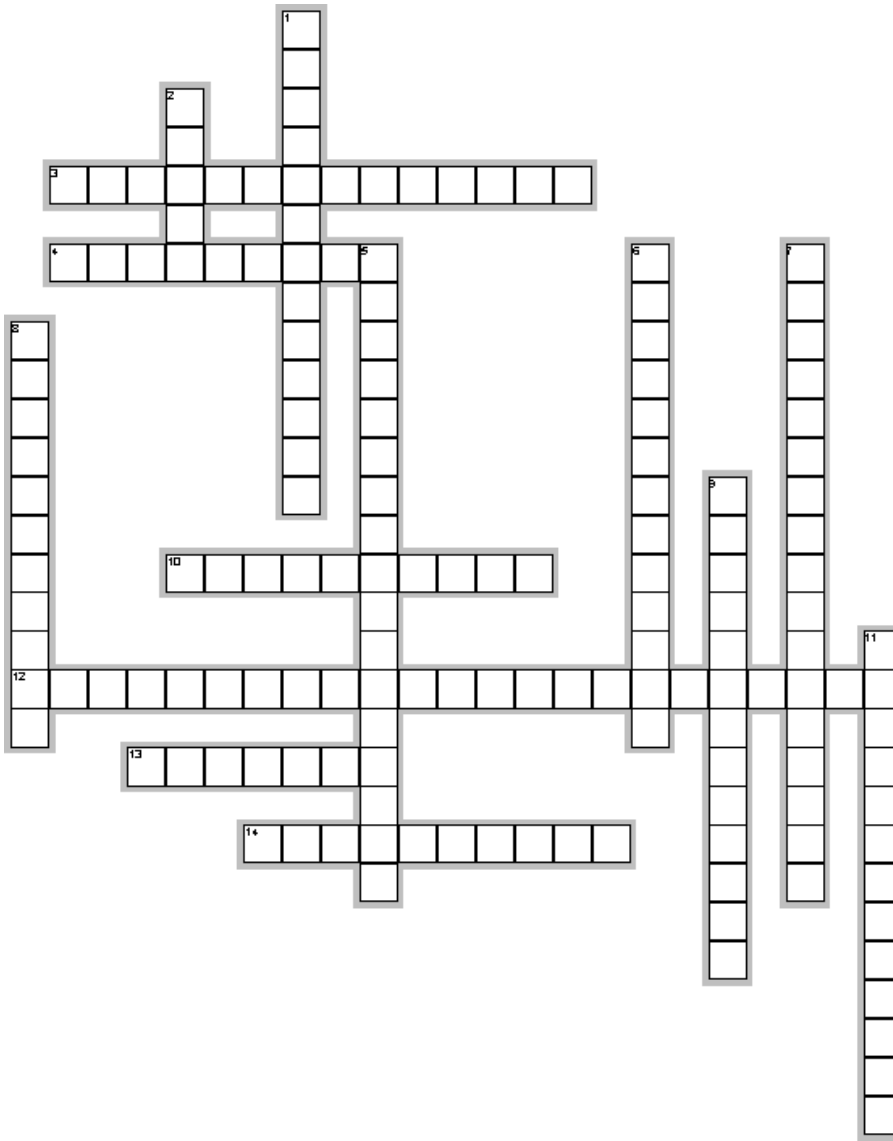


Golenberke Biology Chapter 15 Vocabulary: Biotechnology



Across

3. DNA produced by combining DNA from different sources (2)
4. scientific study of crime scene evidence
10. continued breeding of individuals with similar characteristics to maintain the derived characteristics of a kind of organism
12. the technique used by biologists to make many copies of a particular gene (3)
13. small, circular piece of DNA located in the cytoplasm of many bacteria
14. term used to refer to an organism that contains genes from another organism

Down

1. breeding technique that involves crossing dissimilar individuals to bring together the best traits of both organisms
2. members of a population of genetically identical cells produced from a single cell
5. method of breeding that allows

only those organisms with desired characteristics to produce the next generation (2)

6. alleles that produce detectable phenotypic differences useful in genetics analysis (2)
7. tool used by biologists that analyzes an individual's unique collection of DNA restriction fragments; used to determine whether two samples of material are from the same person (2)
8. process of changing a gene to treat a medical disease or disorder. An absent or faulty gene is replaced by a normal working gene. (2)
9. process of manipulating organisms, cells, or molecules, to produce specific products
11. glass slide or silicon chip that carries thousands of different kinds of single stranded DNA fragments arranged in a grid. A DNA microarray is used to detect and measure the expressions of thousands of genes at one time. (2)

WORD BANK

biotechnology
clone
DNA fingerprinting
DNA microarray
forensics

genethrapy
genetic marker
hybridization
inbreeding
plasmid

polymerase chain reaction
recombinant DNA
selective breeding
transgenic