



Discoveries

To find the answers, go to the section identified. The icons and panel titles are clues to guide you!

Scientists Practising their Scales

Did you know that...? (Look for the DNA double helix.)

1. The word "genome" is a combination of which two words:
 - a) gene and name
 - b) gene and chromosome
 - c) gene and human
 - d) genius and human



In the Heart of Life!

Ladies and Gentlemen: the Cell!

2. The cell is where the music of life comes from. How many kinds of cells does your body have?
 - a) one
 - b) dozens
 - c) hundreds
 - d) thousands

Did you know that...?

3. Which organism has the biggest genome:
 - a) rice (*Oryza sativa*)
 - b) humans (*Homo sapiens*)
 - c) Easter lily (*Lilium longiflorum*)
 - d) amoeba (*Amoeba dubia*)



Some 23,000 Genes and a Conscience

A Family Tune

4. Just like an old folk song passed from one generation to the next, our genes come from our:
 - a) _____
 - b) _____
 - c) _____

Variations on a Theme

5. Certain variations do not have a genetic origin. For example, the bonsai is a Scotch pine that has been transformed by humans into a miniature size. If its seeds were planted outdoors, its descendants could grow to a height of more than:





New on the Charts!



What is a Clone?

6. Identify the false statement:
- when two organisms are clones, they have the same genome
 - identical twins are not clones
 - jelly fish and sea anemones can reproduce by cloning**
 - plant cuttings are a kind of cloning

Did you know that...?

7. Identify the false statement.
- In order to use cloning to recreate a species, you would need to:
- obtain intact DNA, which is easy to find
 - establish a community of animals that could reproduce, which is difficult if you are starting off with only a few individuals
 - find a habitat for this species, otherwise they would be condemned to live in a zoo

GMO Productions



What is a GMO?

8. Identify the false statement:
- a GMO is an organism whose genetic code has been altered in order to give it characteristics that it does not have naturally
 - a GMO is a genetically modified organism
 - a GMO is generally a medium-size organism

DNA Detectives



Hot on the Trail

9. Which one is not identified as a DNA detective?
- anthropologist
 - customs agent
 - dentist
 - game warden
 - detective

