

Choose a category.
You will be given the answer.
You must give the correct
question.

Click to begin.

<u>Click here for</u> <u>Final Jeopardy</u>

DNA	Enzymes	Microbes	Applications	Products	Ethics
10 Point	10 Point	10 Point	10 Point	10 Point	10 Point
20 Points	20 Points	20 Points	20 Points	20 Points	20 Points
30 Points	30 Points	30 Points	30 Points	30 Points	30 Points
40 Points	40 Points	40 Points	40 Points	40 Points	40 Points
50 Points	50 Points	50 Points	50 Points	50 Points	50 Points

The shape of a strand of DNA.

What is a double helix?

A circular piece of extrachromosomal DNA.

What is a plasmid?

These are the "rungs" of the DNA double helix.

What are nucleotide base pairs?

This is the reaction that creates copies of DNA.

What is Polymerase Chain Reaction (PCR)?

Orientation of the complementary strands of DNA.

What is antiparallel?

A common term for this class of enzyme is "molecular scissors."

What is a restriction enzyme?

This enzyme is used to "glue" pieces of DNA together.

What is DNA ligase?

This protein creates a complementary strand of DNA from a parent strand.

What is DNA polymerase?

This protein "unwinds" the DNA helix during DNA replication.

What is DNA helicase?

This is a small segment of complementary bases (usually RNA) used in sequencing and amplifying a gene.

What is a primer?

This bacterium can be found within the digestive tract of some animals.

What is E. coli?

This was the first identified organism that creates an antibiotic that is used by humans.

What is Penicillium?

These microbes can be used to create biofuels and diesel fuel.

What are algae?

A type of photosynthetic bacteria.

What are cyanobacteria?

An insecticidal protein from this bacterium is used in pest-resistant crops. OR, this is the toxin produced by this microbe

What is Bacillus thuringiensis? OR What is Bt toxin?

This condition is caused by a mosquito parasite.

What is malaria?

This is the use of biological systems to clean-up contaminated environments.

What is bioremediation?

This company provides the technology in 90% of the genetically engineered seeds used in the US market.

What is the Monsanto Corporation?

Sensors can be used to detect adequate amounts of this in agriculture.

What is fertilizer?

These organisms can be used to treat human conditions with a "good infection."

What are viruses?

This microbiallyproduced compound is used by diabetics.

What is insulin?

These chemicals can be synthesized by microbes to be used as an energy source.

What are biofuels?

This protein from a jellyfish is used in many microbial sensors.

What is green fluorescence protein?

Precursor to Vitamin A that is produced by Golden Rice and Vita-Yeast.

What is beta carotene?

The first genetically modified compound approved for use as an additive in the US.

What is recombinant bovine growth hormone (rBGH)?

This is a situation where someone intentionally released genetically modified organisms into the environment.

What is a lone operator?

This transfer of genes occurs across species, which often involves resistance plasmids.

What is horizontal gene transfer?

These mechanisms are built-in to many transgenic organisms to reduce their persistence if released into an environment.

What are killswitches?

One of the regulatory agencies for GMOs in the US.

What is the FDA/EPA/USDA?

This is the material of a once-living organism that can interfere with natural environments/populations.

What is a biofact?



Make your wager

This is what the acronym iGEM stands for.

What is the International Genetically Engineered Machines team?