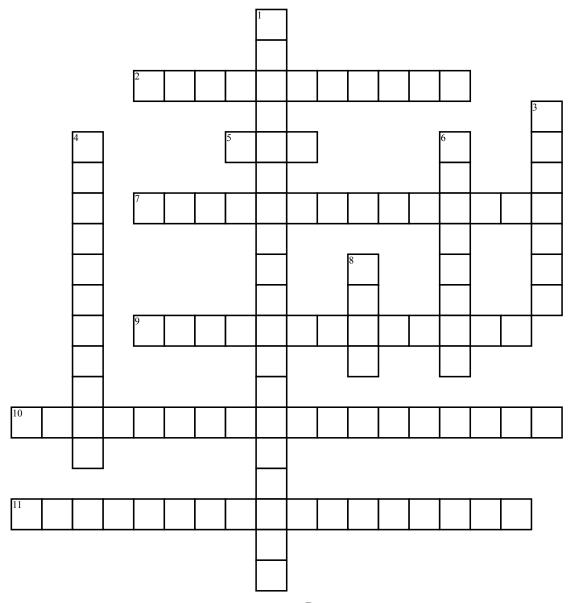
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## Bitotechnology



## Across

- **2.** long thread-like structures made of a DNA molecule and protein
- **5.** a molecule that contains the instruction needed for an organism to develop and function. These instructions are stored as a code made up of genes.
- **7.** the biological treatment of hazardous waste by living organisms.
- **9.** the application of scientific knowledge to change the genetic makeup of living things to create products and processes for human use.
- **10.** also known as genetic engineering Manipulating genes for practical purposes
- 11. the intentional mating of organisms to produce offspring with specific traits.

## <u>Down</u>

- 1. a thirteen year long research effort that sequenced all the base pairs that compose human DNA allowing them to produce a gene map which showed the relative location of each known gene on every human chromosome
- **3.** creating new organisms by using EXACT copies of another organism's genes. Production an organism that is an exact genetic copy of another.
- **4.** A form of genetic modification in which a gene from one organism is inserted into the DNA of another organism. Insulin producing bacteria is an example
- **6.** changes in the number, type, or order of bases on a piece of DNA which can be categorized as a deletion, insertion, or a substitution
- **8.** a segment of a DNA molecule within the nucleus of all cells that are made up of a sequence of four different chemical bases (adenine, thymine, cytosine, and guanine) which determines the traits of an organism or individual.