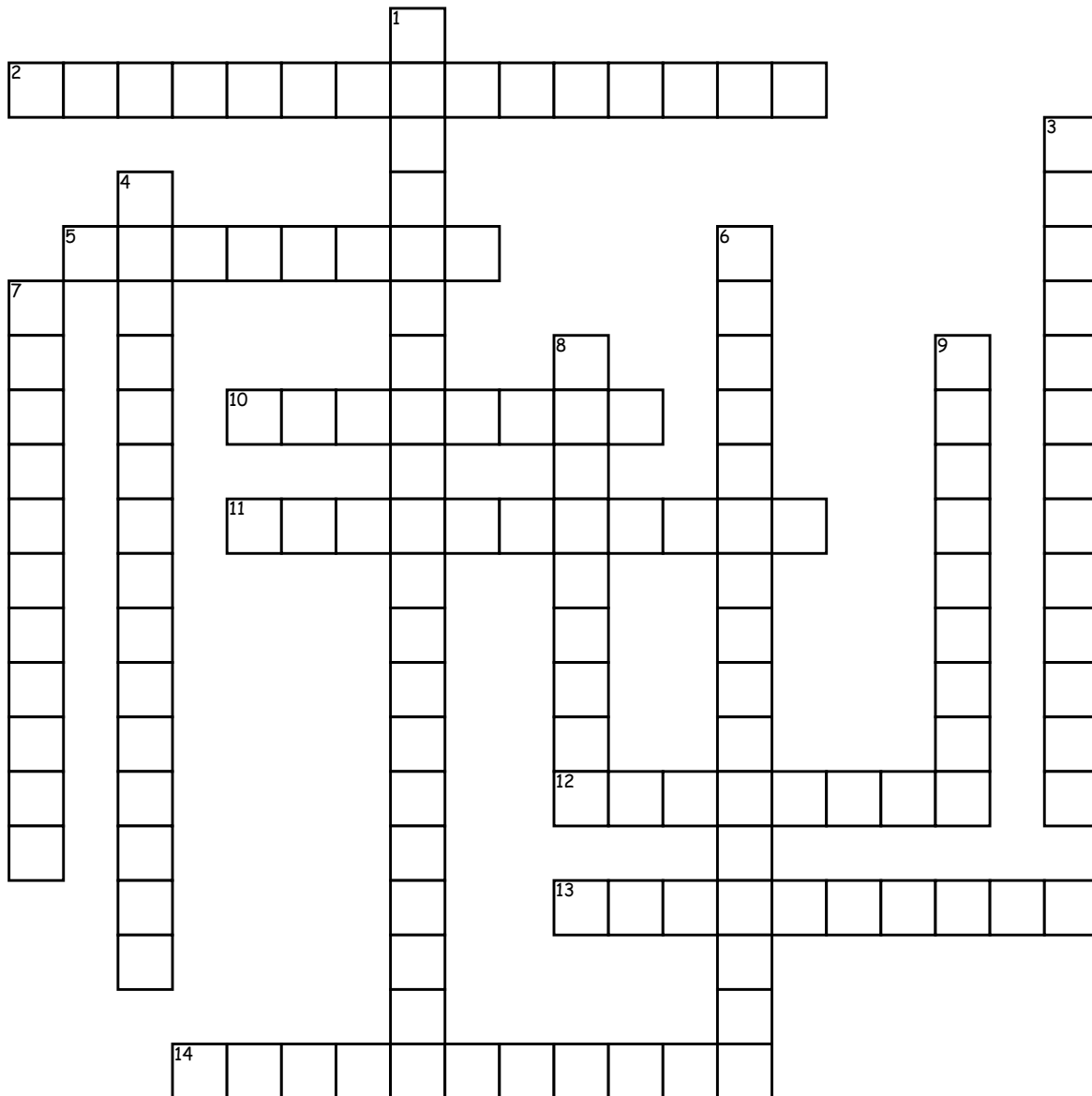


# Gene Regulation



## **Across**

**2.** A biochemical process that involves the addition of phosphate to an organic compound.

**5.** Gene resulting in the loss of ability to produce mRNA

**10.** join or insert a gene or gene fragment.

**11.** the process where an acetyl functional group is transferred from one molecule to another.

**12.** natural or synthetic organic compounds characterized by a molecular structure of 17 carbon atoms arranged in four rings.

**13.** is a protein that increases gene transcription of a gene or set of genes.

**14.** short strands of dna

## **Down**

**1.** proteins involved in the process of converting, or transcribing, DNA into RNA.

**3.** the increase range of a single signal to many cells

**4.** caused by enzymatic process resulting from the action of cells.

**6.** bind messenger RNA and transfer RNA to synthesize

**7.** adds methyl groups to dna

**8.** a DNA sequence that increases the level of transcription of a gene that is located nearby on the same chromosome.

**9.** random errors in gene replication