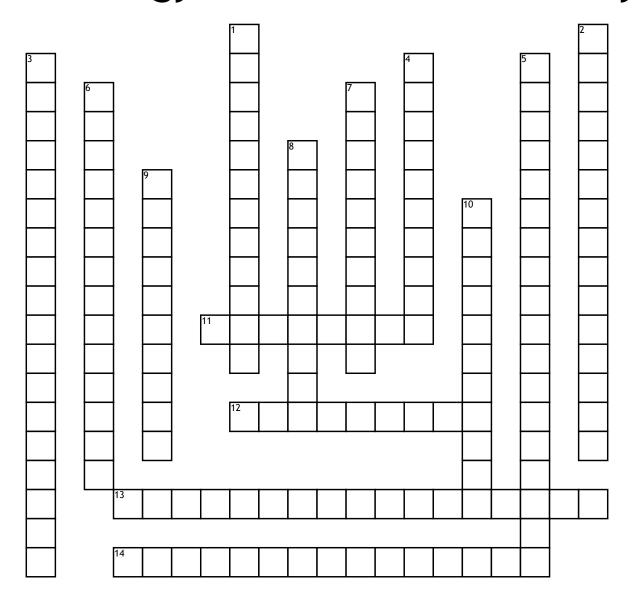
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AP Biology: Ch.18 Review Activity



Across

- 11. Small, positively charged proteins that attract negatively charged DNA. DNA then coils around it very tightly.
- **12.** Double stranded DNA between two nucleosomes. The string in the "Beads and string" analogy.
- **13.** When certian genes are expressed in a parent-of-origin specific manner. One allele is imprinted upon, silencing it.
- **14.** Regions of DNA found at the histone.

<u>Down</u>

- 1. The basic structural unit of DNA associated with replication, gene expression, and packaging.
- **2.** A region of DNA adjacent to or within a gene that controls gene expression through the binding of transcription factors.
- **3.** An epigenetic mechanism used to control gene expression. The unwrapping of DNA from around a histone to create loose coils.
- **4.** A protein that reduces gene expression by binding to the operon at the activator site.
- **5.** How cells differ to perform specific tasks.

- **6.** AN epigenetic mechanism used to control gene expression. Adding a methyl group to turn a gene "off".
- **7.** DNA wraps around 8 histones twice. Then forms tight coils.
- **8.** A protein that enhances gene expression. Most are bound to enhancers.
- **9.** The fundamentasubunit of a chromatin. Each is a piece of DNA wrapped around a histone.
- **10.** Lightly packaged form of chromosomes enriched in genes. Generally under active transcription.