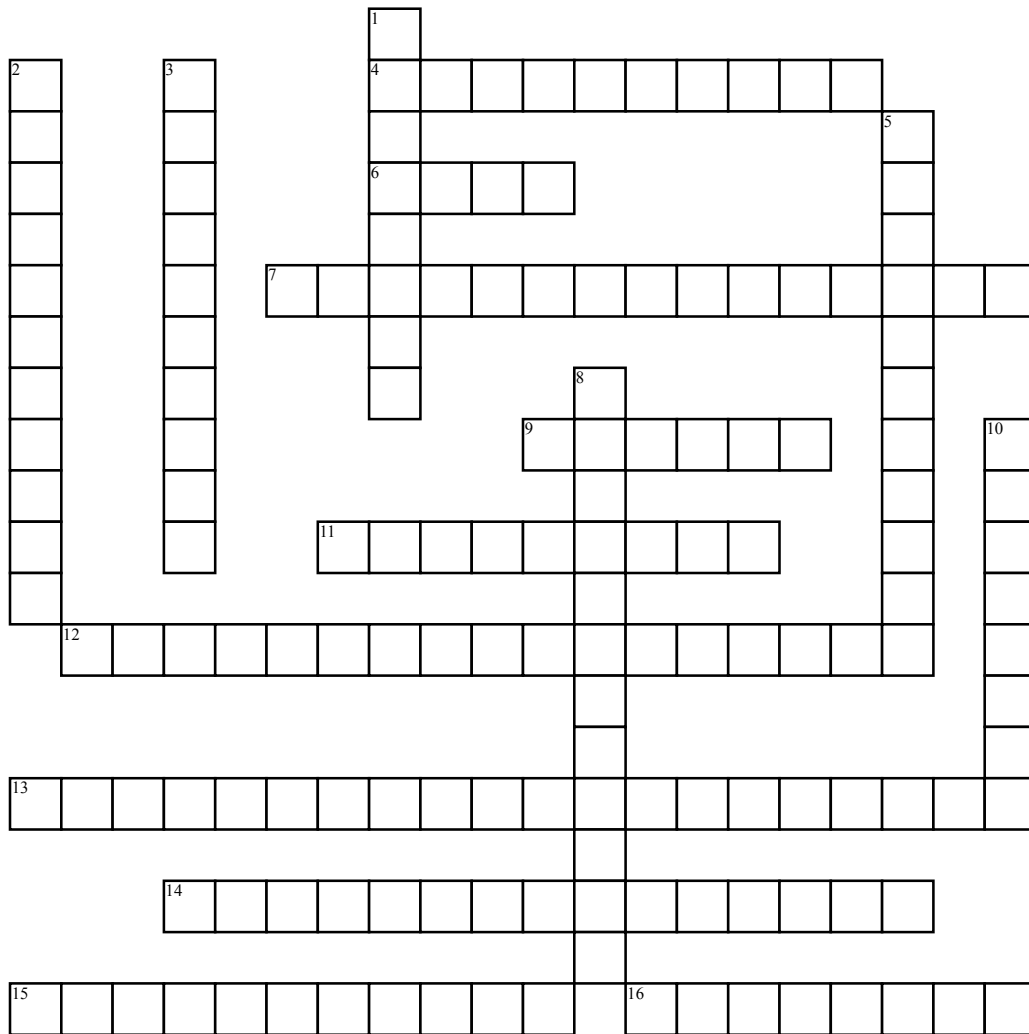


Gene Regulation



Across

4. A protein complex that breaks down damaged proteins
 6. Interferes with the transcription of RNA to proteins
 7. A tightly packed group of DNA that is inactive
 9. A single genome unit consisting of many genes
 11. A protein that regulates transcription in almost all eukaryotes

12. An operon normally "ON"
 13. A protein that binds to an operator to control gene expression
 14. An operon normally "OFF"
 15. The addition of a methyl group to DNA that controls gene expression
 16. Where RNA Polymerase attaches; the start of an operon

Down

1. A location on the operon where transcription factors can bond

2. A loosely packed group of DNA that is active
 3. A protein that increases gene transcription
 5. A process of adding acetyl to genes that allows a protein to be transcribed
 8. A protein that removes introns out of DNA
 10. Proteins that coil DNA into structural units

Word Bank

- | | | | |
|--------------------|------------------|-----------------------|-------------|
| Acetylation | Heterochromatin | Ubiquitin | Activators |
| Repressible Operon | Spliceosomes | Methylation | Proteasome |
| Operon | Inducible Operon | Operator | RNAi |
| Promoter | Histones | Transcription Factors | Euchromatin |