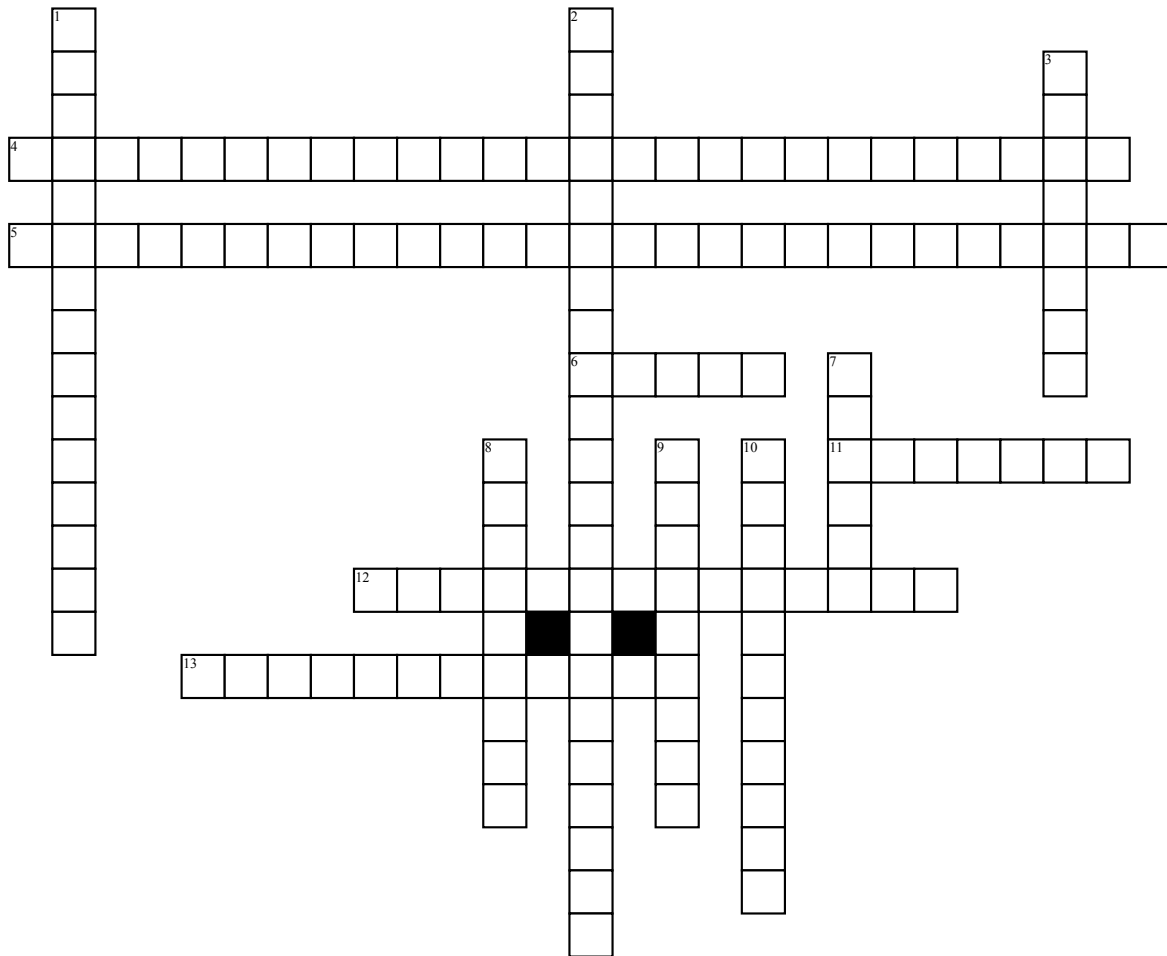


Chapter 18 Crossword; Gene Regulation



Across

- 4.** This binds to the promoter region to help recruit RNA polymerase (three words)
- 5.** Mechanism by which 1600 transcription factors are able to differentially regulate 30000 genes (three words)
- 6.** The amount of transcription that occurs when RNA polymerase binds to the promoter absent of any elements that facilitate transcription
- 11.** Type of hormone that can freely diffuse through cell membranes and bind to internal transcription factors

- 12.** DNA binding domain composed of two alpha helices that binds to the major groove of DNA (three words)
- 13.** Transcription regulatory protein that couples activators and transcription factors. It does not bind directly to DNA.

Down

- 1.** DNA that is tightly packed around histones and is transcriptionally inactive
- 2.** The type of bond that creates alpha helices and beta sheets in proteins

- 3.** Describes DNA elements that are near the initiation site
- 7.** Describes DNA elements that are far (1000s of BP away) from the initiation site
- 8.** This binds to upstream enhancer regions to increase rate of transcription
- 9.** This inhibits activation of transcription initiation
- 10.** DNA that is loosely packed and transcriptionally active