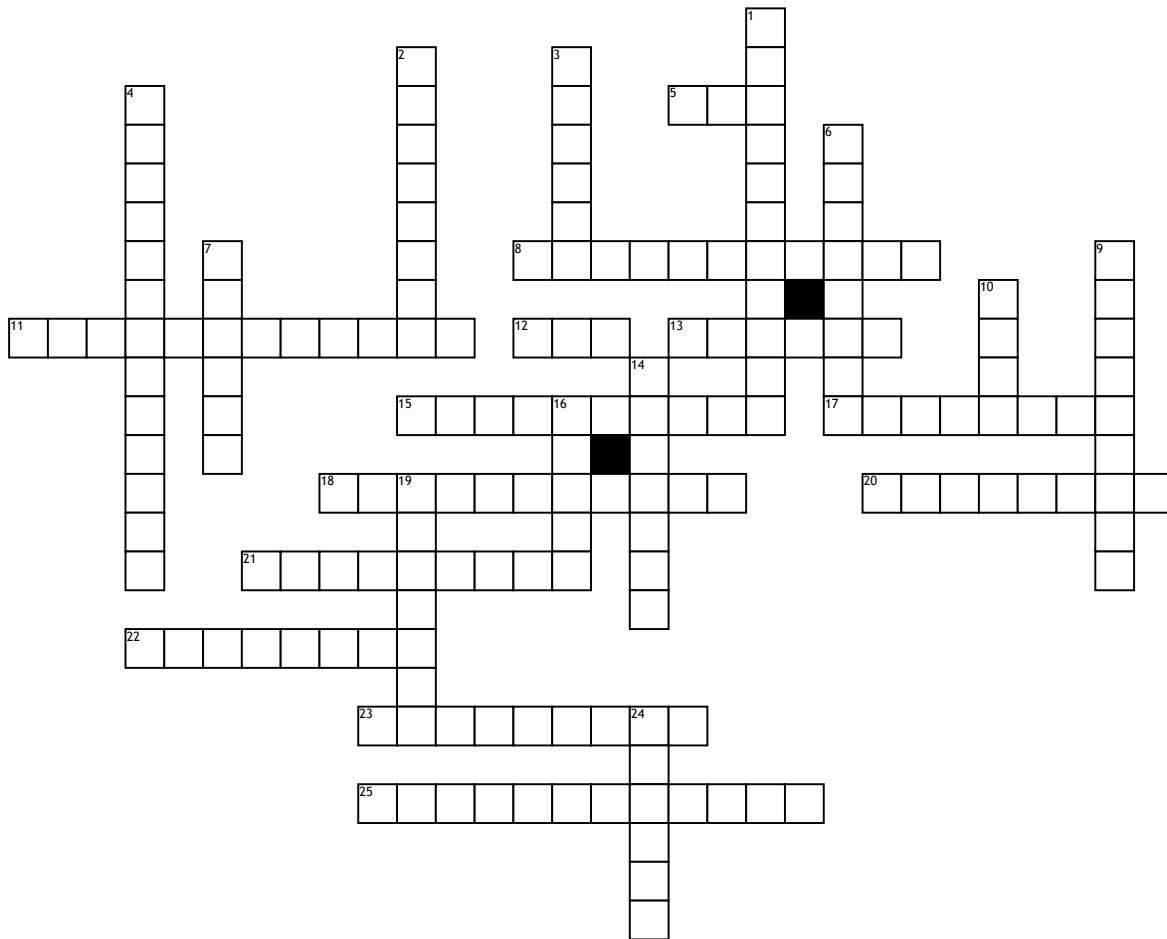


Microbiology: An Introduction



Across

5. Hydrolyzed by ATP binding proteins
 8. Activation in conducive growth environments
 11. Attached to the cell membrane lipids
 12. Type of microscope that gives colorful and 3-D images
 13. Lac Permease is an example of this type of transport
 15. Water passages
 17. Counterstain
 18. Integral proteins are an example
 20. Attached to the PG layer

21. Dormant

22. Cleaves the bond between NAG and NAM
 23. Self-organized collection of lipids

25. Sugars plus amino acids

Down

1. No walls
 2. Specific for "twitching"
 3. chemical reactions in a cell depend on this
 4. Substrate is chemically modified in this mechanism
 6. Used by Koch to formulate his postulates

7. The number of alpha helices needed to form a transport channel

9. Steroid-like compound in bacteria
 10. Makes a watertight gas vesicle
 14. Only contain L-amino acids
 16. Type of microscope that is best for viewing internal cell detail
 19. Defeated the idea of Spontaneous Generation
 24. Endotoxin