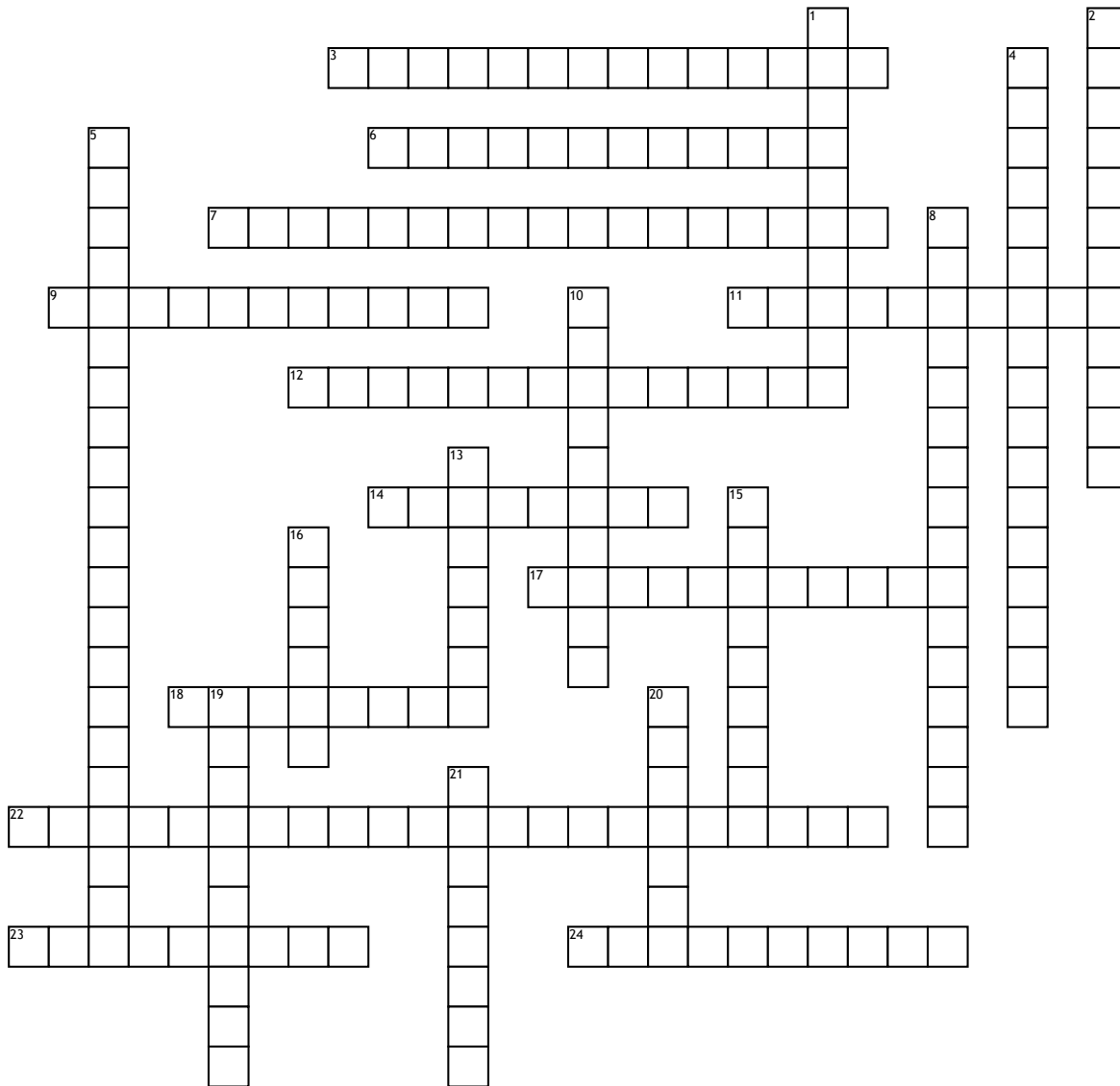


BIO 1500 Evolution



Across

3. Hardy Weinberg equilibrium helps us to study this type of evolution.

6. Small populations are intensely affected by this random process.

7. 'p' and 'q' are used to denote these.

9. Organisms in a population may all have similar phenotypes due to this type of selection.

11. Natural selection works on this type of variation.

12. This "timepiece" helps track evolutionary time.

14. To estimate the time of evolutionary change, we assume the rates of change are _____.

17. The variation in a trait in a population may move towards one extreme due to selective pressures, also known as this type of selection.

18. These duplicated homologous genes are found in the same species.

22. Genes can be moved from one organism to a different organism through this type of exchange.

23. Speciation in the same region is known as this.

24. If selection causes members of the population to be at one extreme or another for a trait, this type of selection is occurring.

Down

1. A population of butterflies was almost completely wiped out by a drought, but the population came back the following year, with less variation, after experiencing this.

2. For a new species to evolve, there must be this type of isolation.

4. '2pq' is one of these.

5. Speciation that occurs with alternating long time periods of little change and short bursts of fast change is known as this.

8. Adaptive evolution is caused by this mechanism.

10. Speciation that happens slowly is known as this.

13. Mutations in these regions of a gene are least likely to cause a change in the protein sequence.

15. These duplicated homologous genes are found in different species.

16. When males and females choose each other based on variations in a trait, this type of selection is occurring.

19. Speciation in different regions is known as this.

20. Today we divide all species into three _____.

21. Migration leads to this.