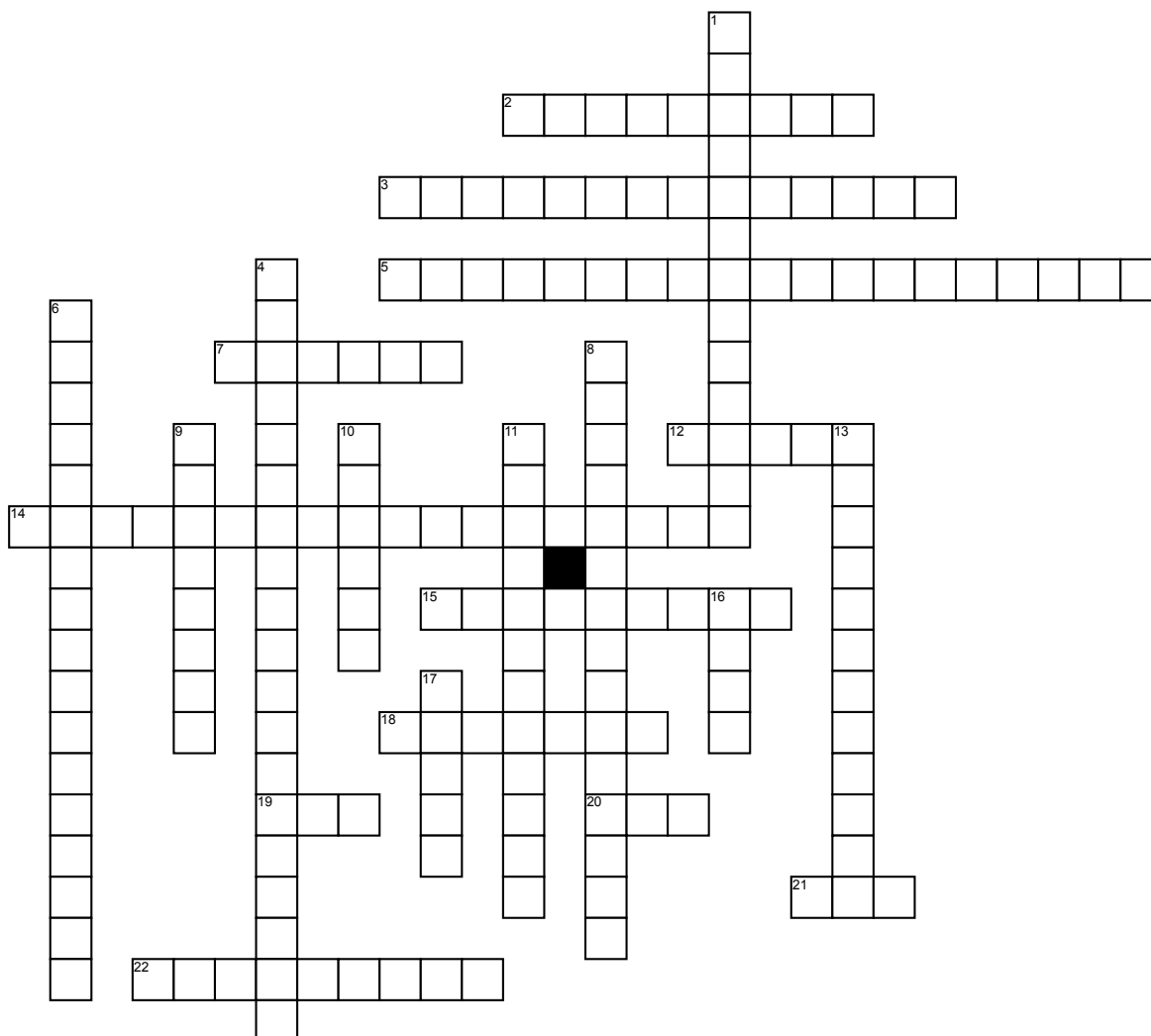


# Respiration



## Across

2. Complete the process name: .... level phosphorylation  
 3. What piece of equipment is used to count cells?  
 5. What is the "fluid-filled" inner part of mitochondria called?  
 7. Which group combines with coenzyme A in the link reaction?  
 12. Which respiratory substrate has the highest mean energy value?  
 14. The area between the inner and outer mitochondrial membranes is known as what?  
 15. A compound has a RQ of 0.9, which respiratory substrate is being used?  
 18. Lactate fermentation occurs in which type of organism?

19. What is the net gain of ATP per molecule of glucose in the Krebs cycle?  
 20. How many triose phosphates are formed per molecule of glucose?  
 21. Total molecules of reduced NAD produced during respiration  
 22. Where do both of the anaerobic respiration pathways take place?

## Down

1. What additional product is formed at the end of ethanol fermentation?  
 4. In anaerobic respiration there are two pathways: ethanol fermentation and what?  
 6. What does pmf stand for?  
 8. What is the first main stage of glycolysis?  
 9. What product is formed at the end of glycolysis?

10. The structure of ATP consists of 3 phosphate group, adenine and what?  
 11. The flow of protons, down their concentration gradient and through a protein channel is known as what process?  
 13. What does the "D" in NAD stand for?  
 16. Electron carriers contain a non-protein haem group that contains what kind of ion?  
 17. At the end of the electron transport chain, what additional product is formed?