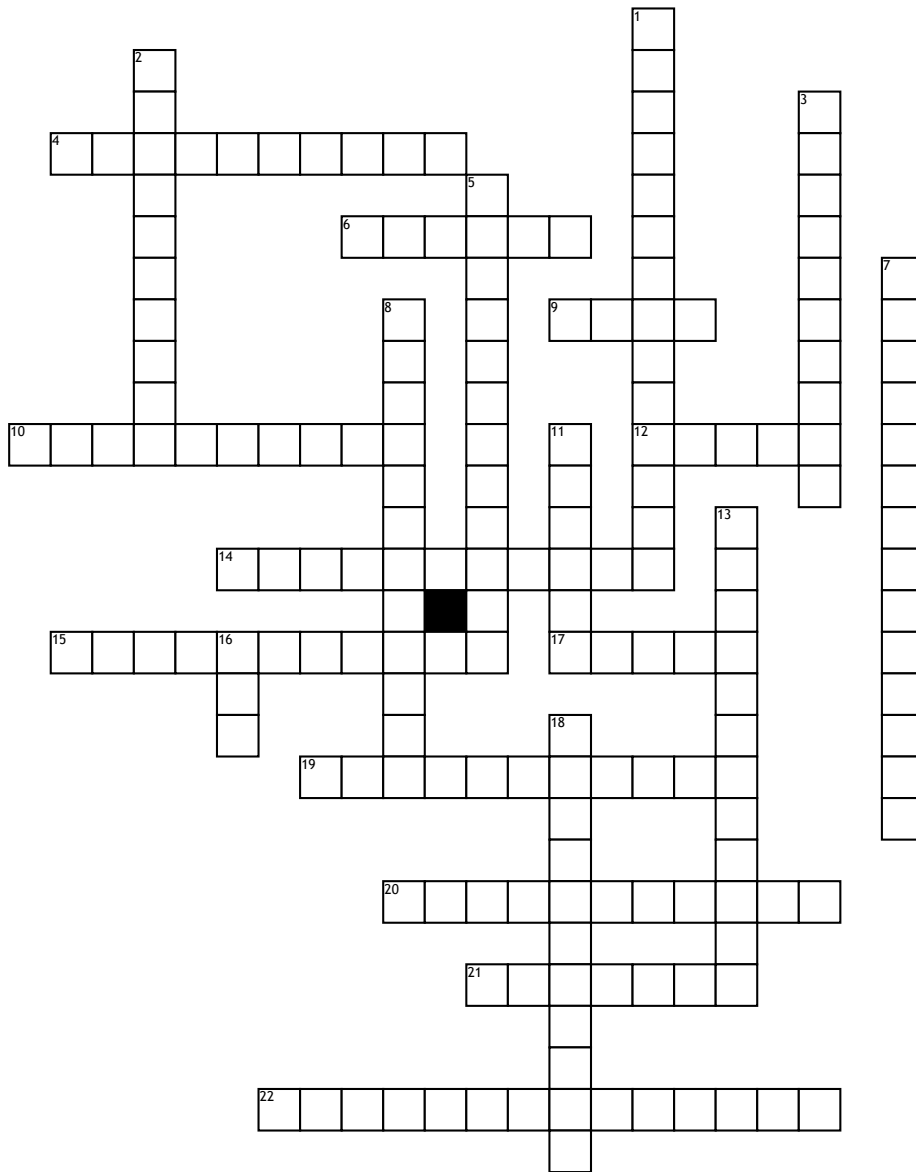


Name: \_\_\_\_\_

# The mystery of epigenetics



## Across

4. Histones aggregation plus DNA interaction form the..  
6. - The first dimer released during the nucleosomes' displacement from DNA by SWI/SNF  
9. How do we study epigenetic marks?  
10. Histone modification, to have a regulatory role must be...  
12. Maximum number of methenyl groups that can be bound to a lysine residue  
14. Histone modification that links to the activation of transcription  
15. Domain associated to acetylation  
17. How many histones form a nucleosome?  
19. Which hypothesis wants to describe the patterns and meanings of PTMs?

20. Which modification is associated with active transcription?

21. A class of enzymes that is able to mediate other histone modifications classes of enzymes

22. SWI/SNF appears to have less interactions with ..... than does ISW2

## Down

1. - Process in which recent observations suggest that the INO80 chromatin remodeling complex might be directly involved into:

2. - The large trough on SWI/SNF surface is of the correct dimensions to accommodate a .....

3. - The ATPase domain of ISW2 binds to the ..... histone H4 N-terminal tail

5. Domain associates with methylation

7. What's one of the physiological roles of PTMs?

8. Name of the class of enzymes that is linked to demethylation

11. Main residues characterized by histone modifications

13. Where are localized the majority of histone modifications?

16. Number of nucleosomes that SWI/SNF can bind at a time

18. Which modification doesn't change the charge of the residue?