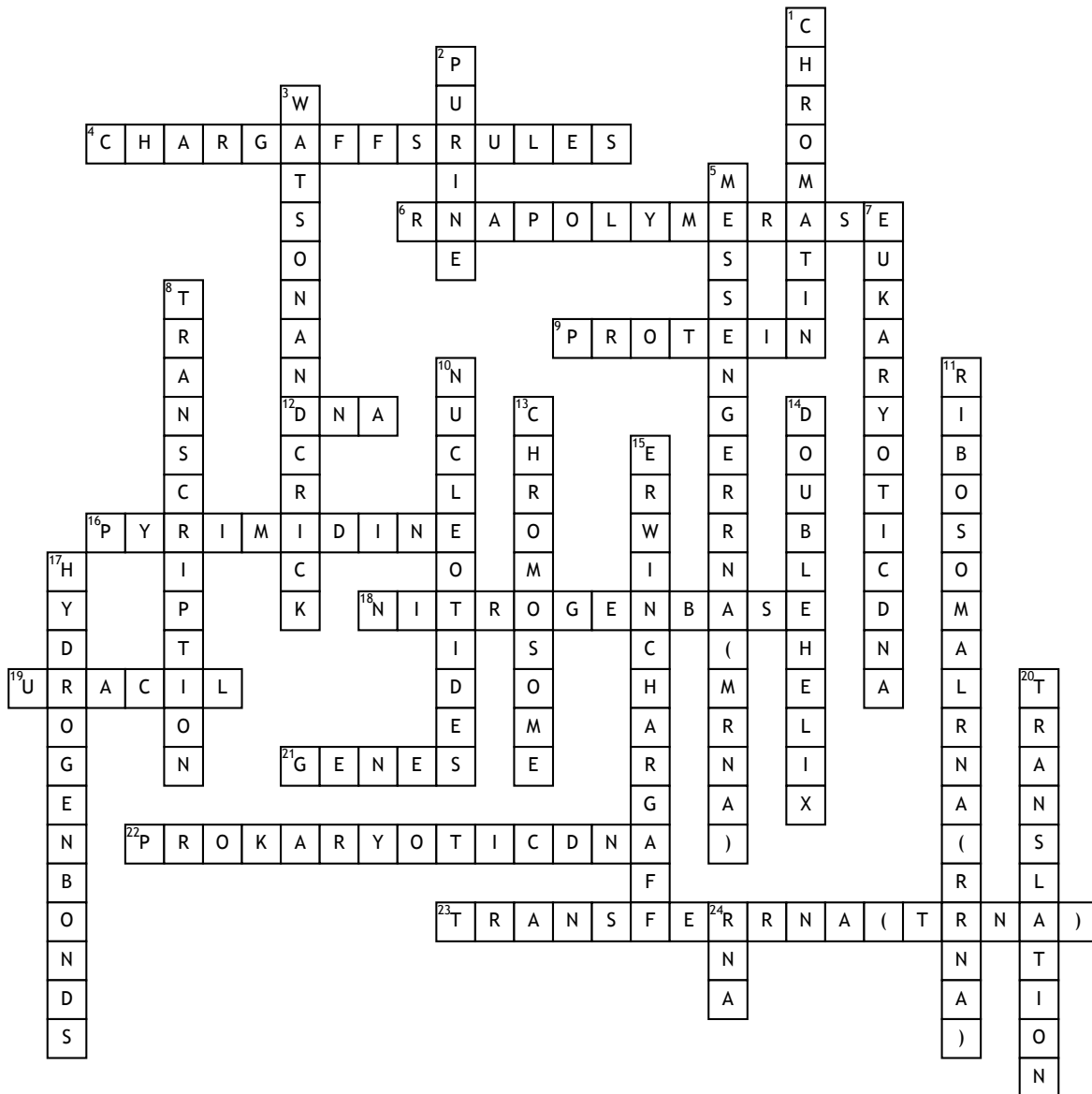


# Transcription/Translation



## Across

4. states that DNA from and cell all organisms should have 1:1 ratio of Pyrimidine and purine bases  
6. ribonucleic acid polymerase  
9. A molecule composed of polymers of amino acids joined together by peptide bonds  
12. Deoxyribonucleic acid  
16. a base that is constituent of DNA or RNA  
18. a simple nitrogen containing a molecule that has the same properties as the base  
19. a compound found in living tissue as a constituent base of RNA  
21. The things that hold your chromosomes

22. lack a distinct cell nucleus and their DNA  
23. RNA consisting of folded molecules that transport amino acids from the cytoplasm

## Down

1. material which chromosomes of organisms are composed of  
2. 2 of the 5 bases in nucleic acid are adenine and guanine, are purines  
3. Founders of DNA  
5. DNA as a sequence of bases is transferred to a ribosome.  
7. replication is a conserved mechanism that restricts DNA replication to only once per cell cycle  
8. the process by which the information in a strand of DNA is copied into a new molecule of messenger RNA

10. a subunit of nucleic acid formed from sugar  
11. Ribosomal ribonucleic acid  
13. threadlike structure of nucleic acids and protein found in the nucleus of most living cells  
14. Twisted ladder shape/formed by 2 nucleotides  
15. a professor of biochemistry in Columbia University  
17. weak electrostatic bond formed by the attraction of opposite charges  
20. the process in which ribosomes in a cell's cytoplasm create proteins  
24. ribonucleic acid