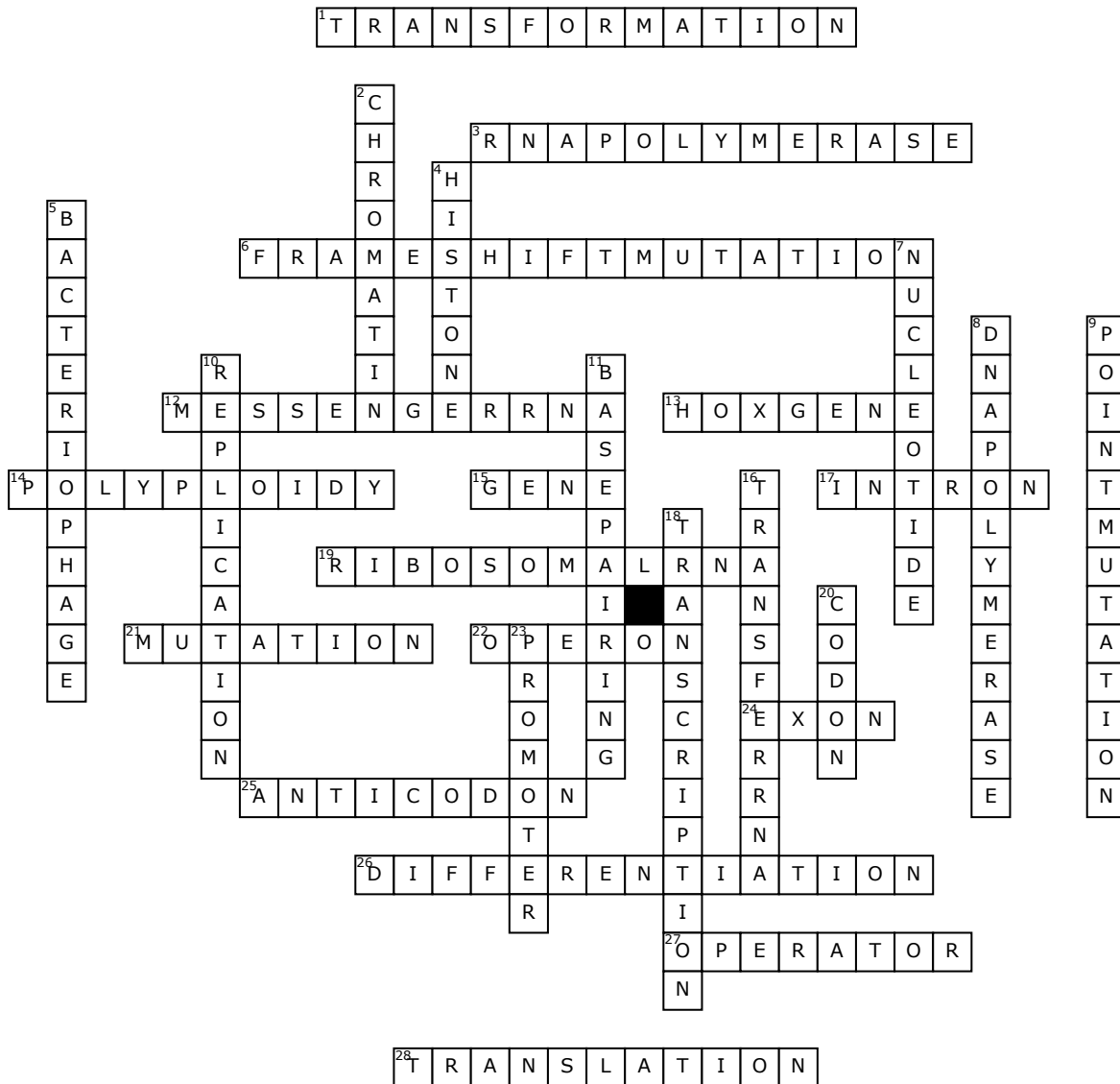


# chapter 12 biology



## Across

1. 1 strand of bacteria is changed by a gene
3. binds to dna and separates strands during transcriptions
6. mutation that shifts the reading frame
12. carries copies if instructions
13. controls the differentiation of cells and tissue
14. extra set of chromosomes
15. sequence of dna with proteins and traits
17. not involved in coding for proteins

19. helps assemble proteins

21. change in the dna sequence
22. genes operating together
24. codes for proteins
25. trna molecule that are complimentary to a mrna codon
26. cells become specialized
27. operon is turned off
28. decoding of mrna into a chain

## Down

2. dna coiled in around proteins
4. dna coiled in the chromatin
5. virus that infects bacteria

7. monomer of nucleic acids

8. enzyme involved in replication
9. changes in 1 or few nucleotides
10. cell duplicates its dna
11. A=T and G=C
16. transfers amino acids
18. dna copied into a rna sequence
20. 3 nucleotide sequence on messenger rna
23. dna enzyme binds to make rna