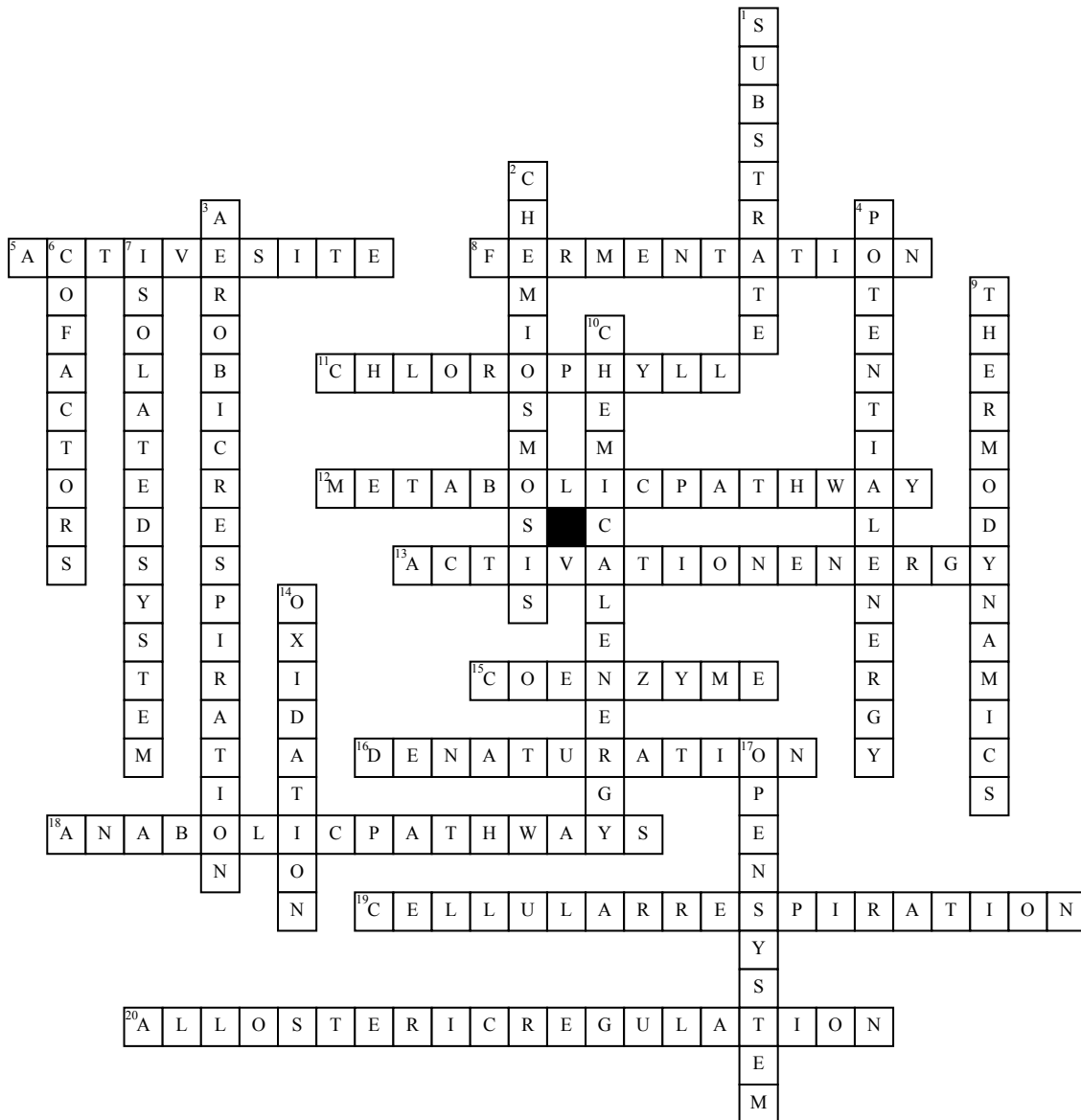


Metabolism



Across

5. a open space on the surface of an enzyme and is also where catalysis occurs
8. a process that changes sugar into gases, alcohol, and acids which occur in bacteria
11. a green pigment that absorbs light that provides energy for photosynthesis
12. series of chemical reactions occurring within a cell in within a cell in which an initial chemical reactions; enzymes catalyze these reactions
13. energy needed distort reactant molecules so bonds can break
15. a loosely bounded cofactor to enzyme

16. process where the quaternary structure, tertiary structure, and secondary structure are loss by proteins
18. consume energy to build complicated molecules to simper ones; biosynthetic pathways
19. a metabolic reaction that converts biochemical energy from nutrients into ATP
20. in biochemistry what binds an effector molecule as a site

Down

1. reactant that enzyme acts on
2. ions moving through selectively permeable membrane down the electrochemical gradient

3. oxygen is consumed as a reactant along with the organic fuel
4. energy matter that possess because of location or structure; energy that hasn't yet been used
6. a non-protein helpers for catalytic activity that commonly bind to enzymes
7. a system that can not exchange either energy or matter with surroundings
9. a energy transformation in a group of matter
10. potential energy available for release in chemical reaction
14. loss of electrons from one substance
17. energy and matter can be transferred between system and surroundings