

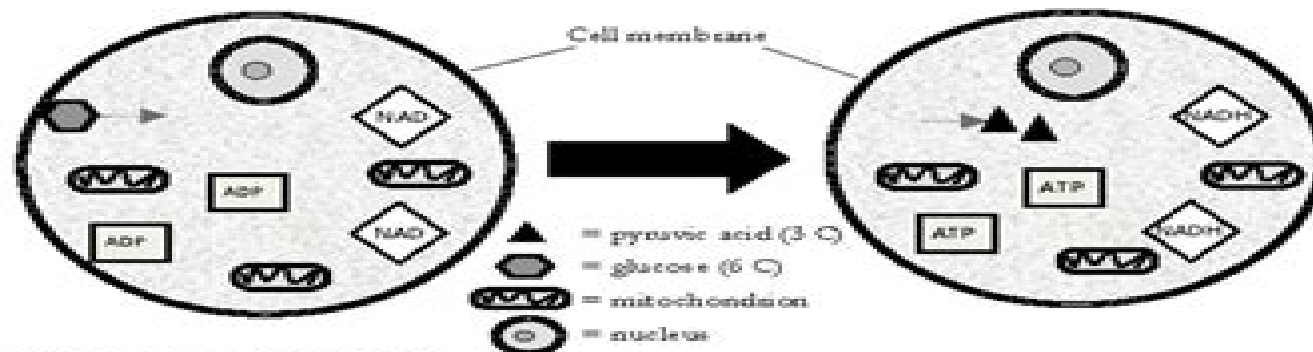
Cellular Respiration

How is energy transferred and transformed in living systems?

Why?

Living organisms display the property of metabolism, which is a general term to describe the processes carried out to acquire and use energy. We know that people need to eat and in our foods are various kinds of nutrients that our cells can use. One large group of nutrients in our foods is carbohydrates, which supply our cells with glucose ($C_6H_{12}O_6$). So the question is: How does the food we chew and swallow fuel our cells?

Model 1 - Glycolysis



1. What is represented by the hexagon?
2. What is represented by the triangles?
3. How many carbon atoms (C) are there in one molecule of glucose?
4. How many carbon atoms (C) are there in one molecule of pyruvic acid?
5. What happens to glucose after it crosses the cell membrane into the cytoplasm of the cell?
6. What is the name of this process?
7. How many ATP molecules are produced during this process?
8. Hydrogen-carrying molecules are also produced during this process. What is the name of these hydrogen-carrying molecules?
9. Does glycolysis occur inside or outside the mitochondria?



Hspi The Pogil Project Simple Diffusion

ML Morrison



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