OnTRACK Biology Journal



Vocabulary

- o ATP
- o Fermentation
- Glycolysis
- o Glucose
- NAD+/NADH
- Pyruvate (Pyruvic Acid)
- o Lactic Acid Fermentation
- Lactic Acid (Lactate)
- o Alcoholic Fermentation
- Ethyl Alcohol (Ethanol)



Cell Processes: Fermentation

1. How do organisms generate energy when oxygen is not available?

2. How is fermentation similar to cellular respiration and how is it different?



3. Why does a cell need NAD+ to keep glycolysis going?

4. Explain why human cells' ability to carry out fermentation is important.

5. Why do runners breathe heavily after a sprint race?



6. Compare and contrast lactic acid fermentation and alcoholic fermentation. Include examples of organisms that use each type of fermentation.

7. How do humans use fermenting bacteria and yeast to generate useful products? Include descriptions of the organism used, the type of fermentation, and the product created.