

BIOLOGY

FACTS AND PRINCIPLES 2

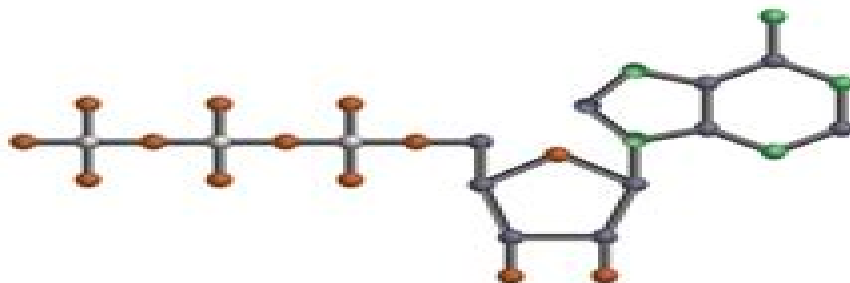
Names, locations, and products of the three stages of cellular respiration

- Glycolysis happens in the cytoplasm where a glucose molecule is broken in half, 2 molecules of pyruvic acid are produced, and a 3-carbon compound. NADH is also produced.
- Krebs Cycle happens within the mitochondria, where pyruvic acid is used to make CO₂, NADH, ATP, and FADH₂.
- Electron transport chain happens within the mitochondria and it uses highly energized electrons from the Krebs cycle to move H⁺ within the mitochondria, producing mass loads of ATP with an ATP synthase.

Number of ATP molecules generated from one molecule of glucose in glycolysis (including net energy gain) and from cellular respiration as a whole

- ATP produced in glycolysis - 4 and with net gain 2. 1 glucose molecule as a whole produces 36 ATP.

The stage of cellular respiration that produces the most ATP



- Electron Transport Chain produces the most ATP.

How ATP is generated via the electron transport chain

- The energy lost from electrons as they pass down the E.T.C is used to move H⁺ ions (aka protons) across the inner mitochondria membrane. This establishes a proton gradient, meaning that there is a difference in concentration and charge on either side of the membrane; there is a higher concentration of protons

in the inter membrane space than on the matrix side of the inner mitochondrial membrane. The enzyme ATP synthase is a channel protein in the inner membrane, because of the proton gradient, the H⁺ ions diffuse down their concentration gradient through the channel causing the enzyme molecule to rotate, this rotation energy is directly transformed into chemical energy by adding a phosphate group to ADP, forming ATP.

The role of oxygen in cellular respiration

- As the final electron acceptor

The main function of the link reaction

- To produce a 2-carbon molecule that can enter the Krebs Cycle

Where energy comes from during an exercise period lasting longer than 20 minutes

- If the exercise period lasts longer than 20 minutes the body starts using fat as the energy

Storage sites of glycogen

The storage sites of glycogen are in muscle and liver molecules

The molecule responsible for the discomfort of muscle "burn" during strenuous exercise

- Lactic acid is responsible for the discomfort of muscle "burn" during strenuous exercise

Common uses of fermentation in human society

- Making bread, producing alcohol, yogurt, or cheese are some of the examples in which humans use fermentation.
- Making bread and producing alcohol- alcoholic fermentation.
- Cheese- lactic acid fermentation

Why does the 3-carbon need to be converted to 2-carbon?

- 3-carbon pyruvic acid converted to 2-carbon molecule (acetyl CoA) in order to enter Krebs Cycle

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Table of Contents Biology Facts And Principles 1 Speedy Study Guides Speedy Publishing

1. Understanding the eBook Biology Facts And Principles 1 Speedy Study Guides Speedy Publishing
 - The Rise of Digital Reading Biology Facts And Principles 1 Speedy Study Guides Speedy Publishing
 - Advantages of eBooks Over Traditional Books
2. Identifying Biology Facts And Principles 1 Speedy Study Guides Speedy Publishing
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Biology Facts And Principles 1 Speedy Study Guides Speedy Publishing
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biology Facts And Principles 1 Speedy Study Guides Speedy Publishing
 - Personalized Recommendations
 - Biology Facts And Principles 1 Speedy Study Guides Speedy Publishing User Reviews and Ratings

- Biology Facts And Principles 1 Speedy Study Guides Speedy Publishing and Bestseller Lists
- 5. Accessing Biology Facts And Principles 1 Speedy Study Guides Speedy Publishing Free and Paid eBooks
 - Biology Facts And Principles 1 Speedy Study Guides Speedy Publishing Public Domain eBooks
 - Biology Facts And Principles 1 Speedy Study Guides Speedy Publishing eBook Subscription Services
 - Biology Facts And Principles 1 Speedy Study Guides Speedy Publishing Budget-Friendly Options
- 6. Navigating Biology Facts And Principles 1 Speedy Study Guides Speedy Publishing eBook Formats
 - ePub, PDF, MOBI, and More
 - Biology Facts And Principles 1 Speedy Study Guides Speedy Publishing Compatibility with Devices
 - Biology Facts And Principles 1 Speedy Study Guides Speedy Publishing Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Biology Facts And Principles 1 Speedy Study Guides Speedy Publishing
 - Highlighting and Note-Taking Biology Facts And Principles 1 Speedy Study Guides Speedy Publishing
 - Interactive Elements Biology Facts And Principles 1 Speedy Study Guides Speedy Publishing
- 8. Staying Engaged with Biology Facts And Principles 1 Speedy Study Guides Speedy Publishing
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biology Facts And Principles 1 Speedy Study Guides Speedy Publishing
- 9. Balancing eBooks and Physical Books Biology Facts And Principles 1 Speedy Study Guides Speedy Publishing
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biology Facts And Principles 1 Speedy Study Guides Speedy Publishing
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Biology Facts And Principles 1 Speedy Study Guides Speedy Publishing
 - Setting Reading Goals Biology Facts And Principles 1 Speedy Study Guides Speedy Publishing
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Biology Facts And Principles 1 Speedy Study Guides Speedy Publishing
 - Fact-Checking eBook Content of Biology Facts And Principles 1 Speedy Study Guides Speedy Publishing
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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