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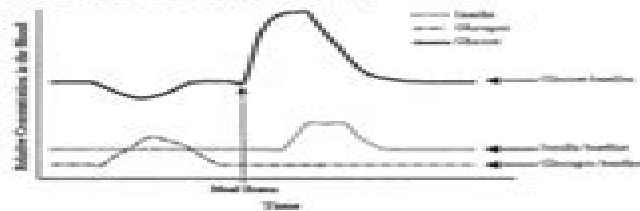
Control of Blood Sugar Levels

What hormones are involved in the homeostasis of blood sugar?

Why?

All living things use glucose as a source of energy. In mammals it is critical that the levels of glucose in the blood are constant. If the glucose concentration in the blood gets too high, it can cause health issues. If the glucose concentration in the blood gets too low, the person could experience more energy, go into a coma or die. In humans, hormone levels help regulate the glucose concentration in the blood and keep us in homeostasis.

Model 1 - Hormonal Control of Glucose



1. The relative blood concentrations of which three molecules are recorded in the graph of Model 1? *insulin, glucagon, glucose*
2. Which molecule does Model 1 show to be the highest concentration? *glucose*
3. Why do cells need glucose? *cells need glucose for cellular respiration to make?*
4. According to the graph in Model 1, what happens to blood glucose levels after a meal has been eaten? *blood glucose levels increase*

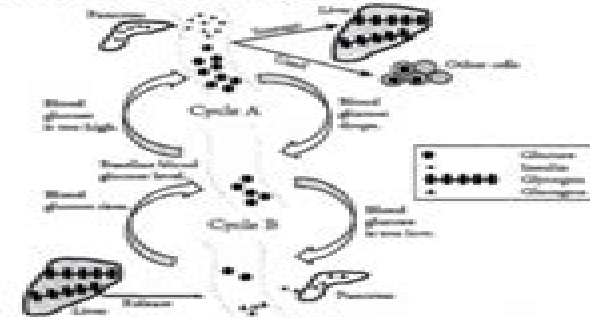
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41

Model 2 - Feedback Control of Blood Glucose

- a. As blood glucose levels increase above baseline, the level of which hormone also increases? *insulin*
- b. As blood glucose levels begin to drop below baseline, the concentration of which hormone increases? *glucagon*
- c. As blood glucose returns to its baseline level, what happens to the levels of insulin and glucagon in the blood? *the levels of insulin and glucagon return to their baseline levels*

Model 2 - Feedback Control of Blood Glucose



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156

6. According to Model 2, what are some of the responsibilities of the body that attempt to regulate blood glucose levels? *liver, pancreas, and ~~cells~~ CS*
7. According to Model 2, where in the body do the insulin and glucagon regulate blood glucose levels? *pancreas*
8. Refer to Model 2.
 - a. What stage in the model represents glucose? *insulin*
 - b. Describe how glucagon is related to glucose. *glucagon is a polymer of glucose monomers*
9. Which form of sugar, glucose or glycogen is stored in the liver for release and glycogen? *glycogen*

Read This!

Liver cells in the body have insulin receptors. When insulin is present, the receptor of glucose liver cells increases. This raises the glucose out of the bloodstream and puts it where it can be used, so its concentration is no longer high. The glycogen can be converted back into glucose when it is needed. The glycogen reserve for most liver cells directly in an energy source. Stores glucose that remains in the blood gets moved out to where it is used.

- a. Refer to Model 2.
 - i. In which cycle is glucose removed from the blood by moving it or moving it into cells to use the fuel? *cycle A*
 - ii. Which hormone, insulin or glucagon, helps glucose move into cells of the body? *insulin*
 - iii. In which cycle is glucose added to the blood from storage area? *cycle B*
 - iv. Which hormone, insulin or glucagon, helps keep glucose from leaving? *insulin*

10. In general, what occurs, explain the role of insulin in maintaining glucose levels after a large meal? *After a large meal, blood glucose rises causing the pancreas to then release insulin. The presence of insulin increases the transfer of glucose into the cell where glucose can be used or stored as energy. As glucose moves inside the cells, blood glucose levels decrease.*
11. In general, what occurs, explain the role of glucagon in maintaining glucose levels when the organism is hungry. *When the organism is hungry, blood glucose levels decrease below the baseline which causes the pancreas to release glucagon which then releases glycogen from the liver and muscles. As glycogen converts into glucose, blood glucose levels increase.*
12. At the end of the cycle in Model 2, identify the stimulus and response for the feedback loop and indicate whether the feedback loop is positive or negative feedback.

| | Stimulus | Response | Result or Regulated |
|---------|---------------------------------------|----------|---------------------|
| Cycle A | High glucose level/release of insulin | Insulin | Glucose |
| Cycle B | Low glucose level/release of glucagon | Glucagon | Glycogen |

13. Explain the levels of glucose, glycogen, and insulin in a person who has
 - a. Skipped a meal. *low levels of glucose, high levels of glycogen, low levels of insulin*
 - b. Just ate a meal. *low levels of glucose, high levels of glycogen, low levels of insulin*
 - c. Just ate a large dinner. *high levels of glucose, low levels of glycogen, high levels of insulin*

Control Of Blood Sugar Levels Answer Key

YCT Expert Team



Control Of Blood Sugar Levels Answer Key:

Interior, Environment, and Related Agencies Appropriations for 2008, Part 5, 110-1 Hearings ,2007

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Table of Contents Control Of Blood Sugar Levels Answer Key

1. Understanding the eBook Control Of Blood Sugar Levels Answer Key
 - The Rise of Digital Reading Control Of Blood Sugar Levels Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Control Of Blood Sugar Levels Answer Key
 - 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 Control Of Blood Sugar Levels Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Control Of Blood Sugar Levels Answer Key
 - Personalized Recommendations
 - Control Of Blood Sugar Levels Answer Key User Reviews and Ratings
 - Control Of Blood Sugar Levels Answer Key and Bestseller Lists
5. Accessing Control Of Blood Sugar Levels Answer Key Free and Paid eBooks
 - Control Of Blood Sugar Levels Answer Key Public Domain eBooks
 - Control Of Blood Sugar Levels Answer Key eBook Subscription Services
 - Control Of Blood Sugar Levels Answer Key Budget-Friendly Options

6. Navigating Control Of Blood Sugar Levels Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Control Of Blood Sugar Levels Answer Key Compatibility with Devices
 - Control Of Blood Sugar Levels Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Control Of Blood Sugar Levels Answer Key
 - Highlighting and Note-Taking Control Of Blood Sugar Levels Answer Key
 - Interactive Elements Control Of Blood Sugar Levels Answer Key
8. Staying Engaged with Control Of Blood Sugar Levels Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Control Of Blood Sugar Levels Answer Key
9. Balancing eBooks and Physical Books Control Of Blood Sugar Levels Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Control Of Blood Sugar Levels Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Control Of Blood Sugar Levels Answer Key
 - Setting Reading Goals Control Of Blood Sugar Levels Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Control Of Blood Sugar Levels Answer Key
 - Fact-Checking eBook Content of Control Of Blood Sugar Levels Answer Key
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
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 - Integration of Multimedia Elements

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