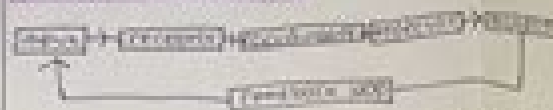


IMPORTANCE

- Physiological control system that maintains internal environment within narrow limits
- ENZYMES**
 - Enzymes, molecules
- CELLS**
 - If it is malfunctioned in blood + tissue fluids

CONTROL MECHANISMS



Positive Feedback

- Deviation in the system
- Causes corrective response
- System continues to deviate
- eg. 1st stage - labour process

Negative Feedback

- Change the stimulus
- Corrective response
- Stabilise the system
- eg. 2nd stage - blood glucose

INFLUENCING FACTORS

- Diet - absorbing the nutrients
- Physiological - stress of work + mental stress
- Genes - inherited

HOMEOSTASIS Pt. 1

PROHORMONES

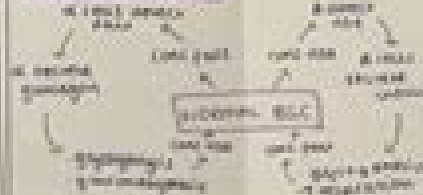
- Produced by endocrine glands + secreted during into blood plasma
- Carries to target cell
- Binds to receptor on target cell + complementary
- Produced in small quantities
- Wide spread and long-lasting effects

SECOND MESSENGER MODEL

Used by 12 hormones: Adrenaline, Oestrogen

- Binding of hormone to transmembrane protein receptor causes signal to travel inside
- Activates the enzyme, which activates the 2nd messenger
- 2nd messenger is protein kinase enzyme, changes the shape + activity
- Activates conversion of glucose to glucose and the blood, \uparrow glucose

FEEDBACK LOOP



LIVER - REGULATING BLOOD SUGAR

GLYCOGENOLYSIS - Glucose \rightarrow Glycogen

- When BGC is higher than normal
- insulin released into blood
- causes glucose into glycogen
- BGC decreases

GLYCOGENOLYSIS

- Production of glucose from glycogen + amino acids

GLYCOGENOLYSIS - Glycogen \rightarrow Glucose

- When BGC is lower than normal
- glucose released into blood
- causes increase of glucose in blood
- raising glycogen

DIABETES - A TYPE OF DYSMETABOLISM

- Issue of long-term
- When controlling with physiological response
- Change in body structure of the glucose molecule
- Carbohydrate + change shape + size \rightarrow glucose in glucose
- At low insulin conc. part of membrane is lost
- At high insulin conc. vesicle fuses with membrane, \uparrow in glucose transporters, carbs
- Issue in BGC
- Results in:
 - 1. increased production
 - 2. increased resistance
 - 3. increased glycogen
 - 4. increased glucose in BGC

DIAGNOSIS OF TYPE OF DIABETES

- Issue of long-term
- Occurs during the blood plasma
- Monitoring in specific blood sugar
- Monitoring glycogen the source of glucose in glucose
- Monitoring glycogen stored in glycogenolysis

TYPE OF DIABETES

TYPE 1

- Autoimmune disease
- Glucose runs into pancreas
- At low conc. are released
- Decreased glycogen
- High in insulin
- Hyperglycemia/murky

TYPE 2

- Autoimmune disease
- Glucose runs into pancreas
- At low conc. are released
- Decreased glycogen
- High in insulin
- Hyperglycemia and monitoring
- Monitoring that change

CONTROL OF DIABETES

- Treatment for T1: Insulin therapy - high insulin (insulin not made)
- Low conc. injected - low insulin high (hyperglycemia)
- High conc. injected - low insulin low (hypoglycemia)
- Treatment for T2: Exercise - low insulin in higher conc
- Low - resistance to glucose intake
- Low resistance - \uparrow insulin production/insulin release in blood plasma + resistance

Holt Biology Cell Division Concept Mapping Answer

BM King



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Unveiling the Energy of Verbal Artistry: An Mental Sojourn through **Holt Biology Cell Division Concept Mapping Answer**

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