

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. hot fever - more fever

Negative Feedback

- Change the stimulus
- Corrective response
- Stabilize the system
- eg. hot fever - more sweating

DIABETES - A TYPE OF ENDOCRINE [T1D]

- TYPE 1 Diabetes -
- When combining with autoimmune response
- Change in ability to produce or use glucose in cellular processes - change sugar + insulin -> increase in glucose
- At low insulin conc. part of membrane involved
- At high insulin conc. vesicle fuse with membrane, it is glucose transporters, carrier

Sign in blood

Results in:

- 1. increased glucose 2. increased insulin
- 3. increased glycogen 4. increased glucose in the

DIABETES - A TYPE OF ENDOCRINE [T2D]

- TYPE 2 Diabetes -
- Occurs during mid-life
- Associated with obesity
- Associated with the body's response to glucose
- Associated with insulin resistance

PROHORMONES

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

INFLUENCING FACTORS

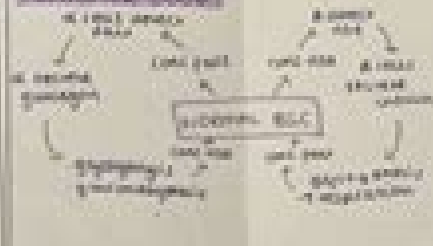
- Diet - obesity + high cholesterol
- Genetics - family history + ethnicity
- Exercise -

HOMEOSTASIS Pt. 1

SECOND MESSENGER MODEL

- Used by 12 hormones: Adrenaline, Oestrogen
- 1. Binding of hormone to transmembrane protein receptor causes signal to travel inside
- 2. Activates the enzyme, which activates the 2nd messenger
- 3. 2nd messenger is protein kinase enzyme, changes the shape + activates it
- 4. Activates conversion of glucose to glucose and the blood, T1D

FEEDBACK LOOP



TYPE OF DIABETES

TYPE 1

- Autoimmune disease
- Glucose rises when releasing insulin
- At low conc. insulin
- Decreased insulin
- Weight loss
- Exhaustion
- Thirst

TYPE 2

- More common and occurs at increasing incidence
- Occurs in older age (40-50)
- Occurs in people who are obese
- Decreased insulin
- Exhaustion
- Thirst
- Weight gain

LIVER - REGULATING BLOOD SUGAR

Glycogenesis = Glucose -> Glycogen

- When blood is higher than normal
- Insulin released into blood
- Causes glucose to be stored
- Blood decreases

Glycogenolysis

- Production of glucose from glycogen + amino acids

Glycogenolysis = Glycogen -> Glucose

- When blood is lower than normal
- Glucose released into blood
- Causes glucose to be released
- Blood increases

CONTROL OF DIABETES

Treatment for T1: Insulin therapy - high insulin (insulin not made)
 too little injected - can result high (hyperglycaemia)
 too much injected - can result low (hypoglycaemia)

Treatment for T2: Exercise - less weight + higher conc.
 diet - reduction in glucose intake
 oral medication - 1. control glucose / insulin levels in cellular processes / 2. regulation

Concept Mapping Holt Biology Cells In Their Enviroment

Richard Bailey



Concept Mapping Holt Biology Cells In Their Environment:

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