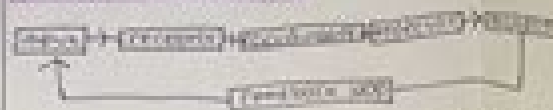


IMPORTANCE

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

CONTROL MECHANISMS



Positive Feedback

- Deviation in the system
- Causes corrective response
- System continues to deviate
- eg. 100% water - more water

Negative Feedback

- Change the stimulus
- Corrective response
- Stabilize the system
- eg. 100% water - more water

DIABETES - A TYPE OF ENDOCRINE

- TYPE 1 DIABETES
- Autoimmune disease where the body's immune system attacks the insulin-producing cells in the pancreas
- Insulin is a hormone that allows glucose to enter the cells
- Without insulin, glucose cannot enter the cells and builds up in the blood
- High blood glucose levels can lead to complications
- TYPE 2 DIABETES
- More common, often linked to obesity and lifestyle factors
- The body's cells become resistant to insulin
- Insulin levels may be normal or high, but the body doesn't use it effectively

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ENDOCRINE

- Produced by endocrine glands + secreted into blood plasma
- Carries to target cell
- Acts to regulate or change the complementary
- Produced in small quantities
- Wide spread and long-lasting effects

INFLUENCING FACTORS

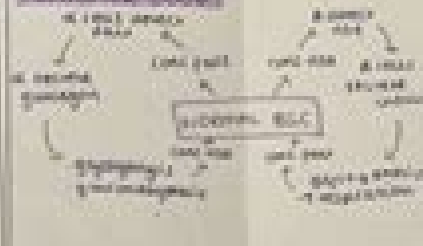
- Diet - eating too much sugar
- Genetics - some people are more prone to it
- Lifestyle - lack of exercise

HOMEOSTASIS Pt. 1

SECOND MESSENGER MODEL

- Used by 12 hormones: Adrenaline, Oestrogen, Progesterone, Testosterone, Prolactin, Growth hormone, Thyroxine, Parathyroid hormone, Aldosterone, Vitamin D, Angiotensin II, Oxytocin
- 1. Binding of hormone to receptor causes signal to be sent to the cell
- 2. Receptor is activated, which causes the cell to respond
- 3. 2nd messenger is produced, which changes the cell's response
- 4. Hormone causes the cell to respond

FEEDBACK LOOP



TYPE 1

- Autoimmune disease
- Insulin-producing cells are destroyed
- Insulin levels are low
- Requires insulin therapy

TYPE 2

- More common, often linked to obesity and lifestyle factors
- The body's cells become resistant to insulin
- Insulin levels may be normal or high, but the body doesn't use it effectively
- Requires insulin therapy

CONTROL OF DIABETES

- Treatment for T1: Insulin therapy - requires daily injections
- Treatment for T2: Lifestyle changes - diet, exercise, weight management
- Medication for T2: Oral hypoglycaemic agents
- Insulin therapy for T2: Sometimes required if lifestyle changes aren't enough

LIVER - REGULATING BLOOD SUGAR

GLYCOGENOLYSIS - GLUCOSE -> GLYCOGEN

- When blood sugar is higher than normal
- Insulin is released into the blood
- Causes glucose to be stored in the liver
- GLC increases

GLYCOGENOLYSIS - GLYCOGEN -> GLUCOSE

- When blood sugar is lower than normal
- Glucagon is released into the blood
- Causes glucose to be released from the liver
- GLC decreases

GLUCAGON

- Production of glucose from glycogen + amino acids

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**Willis Hugh Johnson, William Campbell
Steere**



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Developmental Neurobiology Greg Lemke, 2010-05-22 Developmental Neuroscience is one of the six core disciplines in Neuroscience and yet no single volume non textbook reference exists on the market that provides researchers with more in depth high level information on developmental neurobiology Currently anyone interested in the field at a higher level must sift through review articles published frequently and the more specific handbooks that focus on aspects of development rather than the field as a whole This reference is the first of its kind to fill this need It pulls together the relevant articles on the topic from the 10 volume Encyclopedia of Neuroscience Academic Press 2008 and serves as an affordable and immediate resource for scientists postdocs graduate students with an interest beyond the basic textbook materials on the subject The first and only comprehensive single volume reference for developmental neuroscience that goes beyond the basic textbook information The 93 chapters cover topics ranging from cell fate determination path finding synapse generation neural stem cells to neurodegeneration and regeneration carefully selected from the Encyclopedia of Neuroscience by one of the great developmental neuroscientists Greg Lemke The best researchers in the field provide their conclusions in the context of the latest experimental results *Holt Science and Technology* Holt Rinehart & Winston, 2004-02 *Te HS&T J* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004-02 **Cr 9 DNA** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 Cumulated Index Medicus ,1993 **Choice** ,1972 *New York Magazine* ,1987-07-27 New York magazine was born in 1968 after a run as an insert of the New York Herald Tribune and quickly made a place for itself as the trusted resource for readers across the country With award winning writing and photography covering everything from politics and food to theater and fashion the magazine s consistent mission has been to reflect back to its audience the energy and excitement of the city itself while celebrating New York as both a place and an idea **Choice** Richard K. Gardner, Phyllis Grumm, 1976 *This is Life* Willis Hugh Johnson, William Campbell Steere, 1962 Forthcoming Books Rose Army, 2003

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Concept Mapping in High School Biology Ruth M. Willey, 1988 Mapping Biological Ideas Beat Adrian Schwendimann, 2011 Many students leave school with a fragmented understanding of biology that does not allow them to connect their ideas to their everyday lives Wandersee 1989 Mintzes Wandersee Mintzes Wandersee Thagard Tsui Duncan Hmelo Silver et al 2007 Research suggests that learners can hold a rich repertoire of co existing alternative ideas of evolution for example Bishop Demastes Good Evans 2008 especially of human evolution for example Nelson 1986 Sinatra et

al 2003 Poling Wolpert 1994 Evans 2008 Research suggests that understanding human evolution is a key to evolution education for example Blackwell et al 2003 Besterman Linn et al 2004 is used as the operational framework to explore concept maps as knowledge integration tools to elicit add critically distinguish group connect and sort out alternative evolution ideas Concept maps are a form of node link diagram for organizing and representing connections between ideas as a semantic network Novak Cobb et al 2003 three iterative studies were implemented in ethnically and economically diverse public high schools classrooms using the web based inquiry science environment WISE Linn et al 2003 Linn et al 2004 Study 1 investigates concept maps as generative assessment tools Study 1A compares the concept map generation and critique process of biology novices and experts Findings suggest that concept maps are sensitive to different levels of knowledge integration but require scaffolding and revision Study 1B investigates the implementation of concept maps as summative assessment tools in a WISE evolution module Results indicate that concept maps can reveal connections between students alternative ideas of evolution Study 2 introduces KIMs as embedded collaborative learning tools After generating KIMs student dyads revise KIMs through two different critique activities comparison against an expert or peer generated KIM Findings indicate that different critique activities can promote the use of different criteria for critique Results suggest that the combination of generating and critiquing KIMs can support integrating evolution ideas but can be time consuming As time in biology classrooms is limited study 3 distinguishes the learning effects from either generating or critiquing KIMs as more time efficient embedded learning tools Findings suggest that critiquing KIMs can be more time efficient than generating KIMs Using KIMs that include common alternative ideas for critique activities can create genuine opportunities for students to critically reflect on new and existing ideas Critiquing KIMs can encourage knowledge integration by fostering self monitoring of students learning progress identifying knowledge gaps and distinguishing alternative evolution ideas This dissertation research demonstrates that science instruction of complex topics such as human evolution can succeed through a combination of scaffolded inquiry activities using dynamic visualizations explanation activities and collaborative KIM activities This research contributes to educational research and practice by describing ways to make KIMs effective and time efficient learning tools for evolution education Supporting students building of a more coherent understanding of core ideas of biology can foster their life long interest and learning of science

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