

Homeostasis

Homeostatic control

Physiological factors

- 1) body $^{\circ}\text{C}$
- 2) blood pH
- 3) metabolic waste e.g. CO_2 & urea
- 4) blood glucose concentration & potential
- 5) conc. in blood of CO_2 & O_2

Features of TF that influence cell activity

- $+^{\circ}\text{C}$ - $\downarrow^{\circ}\text{C}$ slows down metabolic reactions; $\uparrow^{\circ}\text{C}$ - denates proteins
- H_2O potential - if $\Psi \downarrow$, H_2O move out of cells by osmosis $\Rightarrow$ metabolic reactions in cell to slow/stop. if $\Psi \uparrow$, H_2O enter cell $\Rightarrow$ burst
- Glucose conc. - $\downarrow$ conc. = $\times$ energy; too $\uparrow$ = H_2O move out of cell by osmosis $\Rightarrow$ disrupt cell metabolism

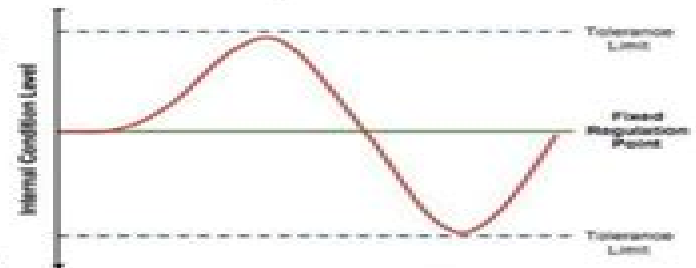
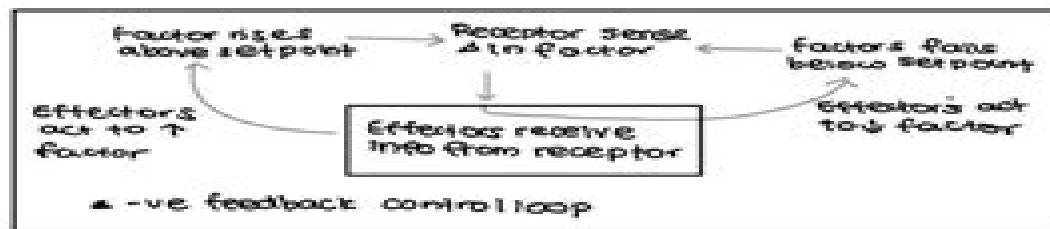
- for a cell - immediate environment = TF that surround it

* Living org use -ve feedback control loop to maintain homeostatic balance

(e.g. - thermoregulation, - osmoregulation, & blood glucose control)

Homeostatic Control $\rightarrow$ +ve loop $\rightarrow$ -ve

1) Receptor detects stimuli $\rightarrow$ send info about it & they detect thru nervous system to a central control in brain/spinal cord $\rightarrow$ instructs effector to carry out corrective action



-ve feedback = $\uparrow \text{CO}_2$ conc. in blood $\rightarrow \text{CO}_2$ receptors $\uparrow$ breathing rate $\rightarrow$ so more CO_2 taken in $\rightarrow$ stimulates receptor even more & breathe faster

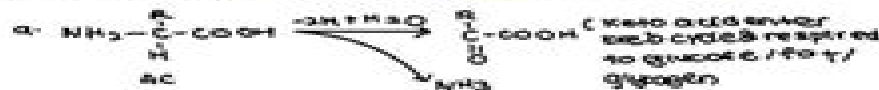
urea - made in liver from excess AC & is transport to kidney in blood plasma sol.

↳ main nitrogenous excretory product - small molecule

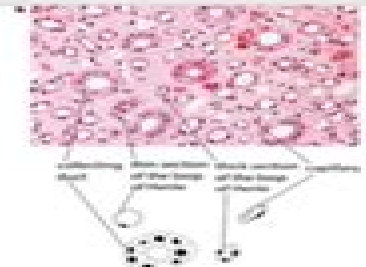
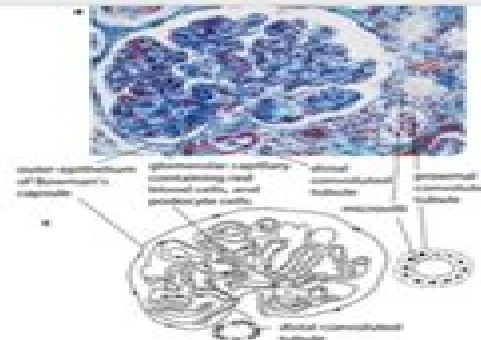
- Other = creatinine & uric acid (small quantity)
made in liver & used in muscle in form of creatine phosphate where it act as energy store.

puric acid = made from breakdown of purines from nucleotides

Deamination: (removal of amino grp from AC) = provide useful energy



Kidney Structure



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Table of Contents A2 Biology

1. Understanding the eBook A2 Biology
 - The Rise of Digital Reading A2 Biology
 - Advantages of eBooks Over Traditional Books
2. Identifying A2 Biology
 - 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 A2 Biology
 - User-Friendly Interface
4. Exploring eBook Recommendations from A2 Biology
 - Personalized Recommendations
 - A2 Biology User Reviews and Ratings
 - A2 Biology and Bestseller Lists
5. Accessing A2 Biology Free and Paid eBooks
 - A2 Biology Public Domain eBooks
 - A2 Biology eBook Subscription Services
 - A2 Biology Budget-Friendly Options
6. Navigating A2 Biology eBook Formats

- ePub, PDF, MOBI, and More
- A2 Biology Compatibility with Devices
- A2 Biology Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of A2 Biology
 - Highlighting and Note-Taking A2 Biology
 - Interactive Elements A2 Biology
- 8. Staying Engaged with A2 Biology
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers A2 Biology
- 9. Balancing eBooks and Physical Books A2 Biology
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection A2 Biology
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine A2 Biology
 - Setting Reading Goals A2 Biology
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of A2 Biology
 - Fact-Checking eBook Content of A2 Biology
 - 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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