

Negative Feedback Control of Temperature

Directions:

Insert and install your Interactions: Foundations CD.

- Click the "Contents" button.
- Open the *Homeostasis file*.
- Click on *Animations*.
- Work through *Negative Feedback Control of Temperature*.

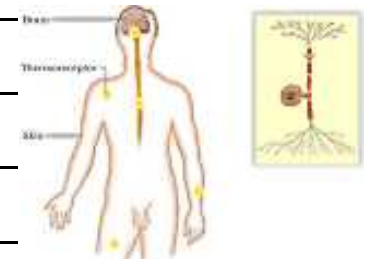


Introduction

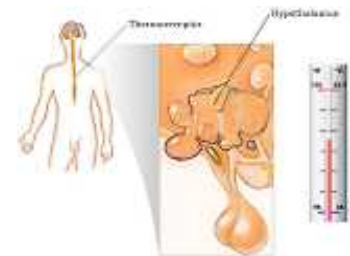
1. Describe the importance of homeostatic body temperature maintenance.



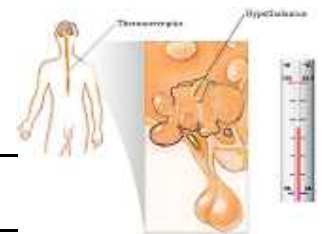
2. What is the function, and locations, of thermoreceptors?



3. Explain the negative feedback control of body temperature using thermoreceptors, the hypothalamus, and the temperature control center.



4. How is homeostasis maintained under heat stress? (Include heat-losing center, capillary dilation, and sweat production.)



5. How is homeostasis maintained under cold stress? (include: heat-producing center, capillary constriction, shivering)

