Negative Feedback Control of Temperature

To complete this worksheet, select:

Module: Foundations
Activity: Animations
Title: Negative Feedback Control of Temperature

Introduction

1. Describe the importance of homeostatic body temperature maintenance.

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

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

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

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