

Temperature

Endotherms: are 'warm-blooded' organisms that can use their internal metabolism to regulate their body temperature. Examples include birds and mammals.

Ectotherms: 'cold-blooded', rely on external sources of heat to maintain their internal body temperature e.g. the sun. Examples include reptiles, amphibians and fish

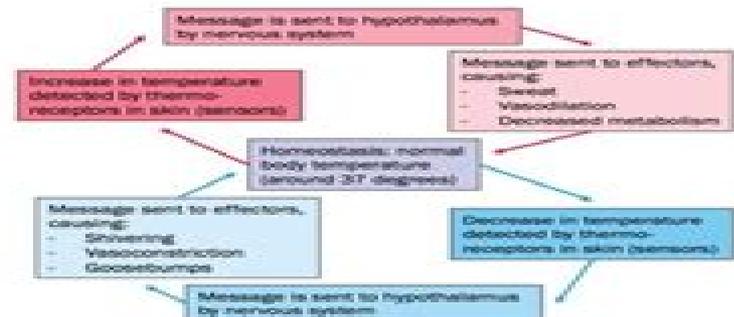
Responses of endotherms to

⇒ *Heating*

- Peripheral vasodilation –the blood vessels dilate, bringing blood closer to the surface of the skin allowing the heat to escape
- Sweating – increased evaporation from the skin cools the skin
- Decreased metabolic rate – less heat energy produced (more of a long-term response)
- Birds will lay their feathers flat against their body and open up their wings

⇒ *Cooling*

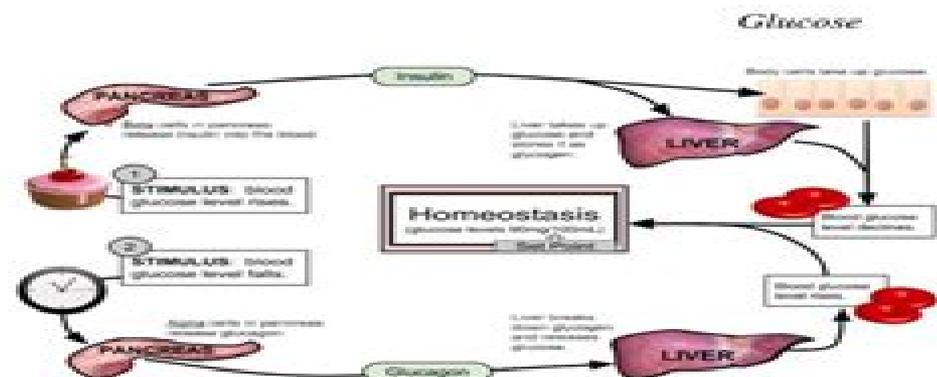
- Peripheral vasoconstriction – attempt to limit blood flow to periphery to conserve heat in the core
- Piloerection – small muscles at the base of hair follicles contract and raise hairs. This creates a layer of warm air against the skin. It is very effective in animals with thick fur and birds who can 'fluff their feathers' when cold
- Shivering – increased muscle activity generates heat energy



Glucose molecules are an important source of energy for cells. The oxidation of glucose during cellular respiration creates energy in the form of the ATP molecule

The two hormones responsible for glucose metabolism in the blood are:

- **Insulin** – reduces the levels of glucose in the blood by allowing glucose entry into cells
- **Glucagon** – increases the levels of glucose in the blood by triggering release from stores of glycogen in the liver and muscles



Hypothalamus

- A region in the lower central part of the brain, is an important control centre for the maintaining of homeostasis. It contains receptors for certain factors such as body temperature. Acts as a link between the nervous and endocrine systems, and sends messages to the effectors to carry out responses necessary for the maintenance of many homeostatic conditions

Hsc Biology 1chapter Notes In

Daniela Niemeyer



Hsc Biology 1chapter Notes In:

The book delves into Hsc Biology 1chapter Notes In. Hsc Biology 1chapter Notes In is an essential topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Hsc Biology 1chapter Notes In, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Hsc Biology 1chapter Notes In
- Chapter 2: Essential Elements of Hsc Biology 1chapter Notes In
- Chapter 3: Hsc Biology 1chapter Notes In in Everyday Life
- Chapter 4: Hsc Biology 1chapter Notes In in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Hsc Biology 1chapter Notes In. This chapter will explore what Hsc Biology 1chapter Notes In is, why Hsc Biology 1chapter Notes In is vital, and how to effectively learn about Hsc Biology 1chapter Notes In.

3. In chapter 2, this book will delve into the foundational concepts of Hsc Biology 1chapter Notes In. The second chapter will elucidate the essential principles that need to be understood to grasp Hsc Biology 1chapter Notes In in its entirety.

4. In chapter 3, the author will examine the practical applications of Hsc Biology 1chapter Notes In in daily life. This chapter will showcase real-world examples of how Hsc Biology 1chapter Notes In can be effectively utilized in everyday scenarios.

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6. In chapter 5, this book will draw a conclusion about Hsc Biology 1chapter Notes In. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Hsc Biology 1chapter Notes In.

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