

APC 2024 Molecular Physiology

18 Study question: Energy metabolism and thermoregulation

1. What is a metabolic state?

1. What does an animal's **metabolic** (energy) state refer to? **Metabolic** refers to **metabolism**, or the chemical reactions that occur in the body. **Metabolic state** refers to the **overall** state of the body's metabolism, which is determined by the balance of energy intake and expenditure.
2. **Metabolic state** refers to the **overall** state of the body's metabolism, which is determined by the balance of energy intake and expenditure.

2. Why is the temperature of the body not directly proportional to metabolic rate?

1. **Temperature** is not directly proportional to **metabolic rate** because **metabolic rate** is determined by the balance of energy intake and expenditure, which is influenced by many factors, including **activity level**, **body size**, and **environmental conditions**.

3. How does metabolic rate change with temperature? What are the consequences of this relationship?

1. **Metabolic rate** increases with **temperature** because **metabolic reactions** are **temperature-dependent**. The rate of **metabolic reactions** increases with **temperature** because **metabolic reactions** are **temperature-dependent**. The rate of **metabolic reactions** increases with **temperature** because **metabolic reactions** are **temperature-dependent**. The rate of **metabolic reactions** increases with **temperature** because **metabolic reactions** are **temperature-dependent**.

4. What physiological and behavioral mechanisms help animals maintain a constant body temperature?

1. **Physiological mechanisms** include **shivering**, **non-shivering thermogenesis**, and **behavioral mechanisms** include **seeking shelter**, **huddling**, and **using external heat sources**.
2. **Physiological mechanisms** include **shivering**, **non-shivering thermogenesis**, and **behavioral mechanisms** include **seeking shelter**, **huddling**, and **using external heat sources**.

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