













Energy Storage; Insulation Transport; Protection

Chapter 26: Homeostasis/Organization of the Animal Body
Tissue Types:

3) Muscle Tissue: Sheet of cells that can contract when properly stimulated (a.k.a. Movement)

Types of Muscle Tissue:

Support







Skeletal Muscle Moves skeleton; Voluntary control Cardiac Muscle Pumps heart; Involuntary control Smooth Muscle Propels substances; Involuntary control

Chapter 26: Homeostasis/Organization of the Animal Body Tissue Types:

4) Nervous Tissue: Cells that are capable of transmitting electrical impulses (a.k.a. Control)

- Compose brain, spinal cord, peripheral nerves
- Consist of two cell types:
  - A) Neurons: Generate and conduct electrical impulseB) Glial Cells: Support and protect neurons











Chapter 26: Homeostasis/Organization of the Animal Body For life to continue, precise internal body conditions must be maintained regardless of external conditions Homeostasis: The process of maintaining a relatively stable internal environment • Not a static process (Dynamic Equilibrium) • Conditions maintained via feedback systems

















Chapter 26: Homeostasis/Organization of the Animal Body

For life to continue, precise internal body conditions must be maintained regardless of external conditions

Homeostasis: The process of maintaining a relatively stable internal environment

Organ Systems Work Together to Maintain Homeostasis:

- Communication Systems:
  - 1) Nervous System
    - Electrical communication via nerve/muscle tissue
    - Fast; Short duration
  - 2) Endocrine System
    - Chemical communication via bloodstream
    - · Slow; Long duration