

Chapter 4 Study Guide

Tissue: The Living Fabric

- Define the term histology versus cytology.

Histology is the study of the microscopic structure of animal or plant tissues.

Cytology is the exam of a single cell type, as often found in fluid specimens.

- Name the three types of germ tissue and describe the adult tissues into which they differentiate.

- **Ectoderm** - epidermis of integumentary system and all components of the nervous system.
- **Mesoderm** - components of the skeletal, muscular and circulatory system.
- **Endoderm** - Functional linings of digestive, respiratory, urogenital tracts and associated glands and organs.

- Name the four principle tissue types and briefly describe each.

- **Epithelial tissues** – Covers exposed surfaces, lines internal passageways, produces glandular secretions.
- **Connective tissues** – Fills internal spaces, provides structural support, and stores energy.
- **Muscle tissues** – Contracts to produce active movements. Excitable (responds to stimulation).
- **Nervous tissues** – Conducts electrical impulses, detects, interprets, and responds to stimuli. Excitable.

- Describe the location and function of the various types of membranes of the human body.

- **Mucous membranes** – Epithelial tissues. Line body cavities that open to exterior (Digestive, Respiratory, Urogenital tracts). Secrete mucous (wet/moist), which reduces friction, supports absorption/secretion.
- **Serous membranes** – Mesothelium supported with areolar tissue. Never exposed/connected to exterior. Secrete transudate/serous fluid for lubrication.
 - **Pleura** – Lines the chest cavity and surrounds the lungs.
 - **Pericardium** – Lines the pericardial cavity and surrounds the heart.
 - **Peritoneum** – Lines the peritoneal cavity and lines the surfaces of the visceral organs.
- **Cutaneous membranes** – Stratified squamous epithelium and areolar tissue supported with dense irregular CT. Dry, relatively thick, and water proof.
- **Synovial membranes** – Epithelium with some differences – develops within a CT, no basal lamina, gaps of up to 1mm may separate adjacent cells, continuous exchange of fluid and solutes from synovial fluid. Lines mobile joint cavities but not opposing bone surfaces.

- List the structural and functional characteristics common to all epithelial tissue.

- **Simple**=only one layer thick
- **Stratified**=more than one layer thick
- **Pseudostratified**= "false layers"; it looks like more than one layer but in fact its only one layer thick
- **Epithelia provide physical protection.** Epithelial tissues protect exposed and internal surfaces from abrasion, dehydration, and destruction by chemical or biological agents.
- **Epithelia control permeability.** Any substance that enters or leaves the body has to cross an epithelial tissue. Some epithelia are relatively impermeable, whereas others are permeable to compounds as large as proteins. Most are capable of selective absorption or secretion. The epithelial barrier can be regulated and modified in response to various stimuli. For example, a callus forms on your hands when you do rough work for an extended period of time

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Rachel Sandford



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 $\text{C}_2\text{H}_6(\text{g}) + \frac{7}{2} \text{O}_2(\text{g}) \rightarrow \text{CO}_2(\text{g}) + 3 \text{H}_2\text{O}(\text{g}) \quad \Delta h = 283 \text{ kJ}$

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 $\text{C}_2\text{H}_4(\text{g}) + 3 \text{O}_2(\text{g}) \rightarrow 2 \text{CO}_2(\text{g}) + 2 \text{H}_2\text{O}(\text{l}) \quad \Delta h = 1411 \text{ kJ/mole}$
 $\text{C}_2\text{H}_6(\text{g}) + 7/2 \text{O}_2(\text{g}) \rightarrow 2 \text{CO}_2(\text{g}) + 3 \text{H}_2\text{O}(\text{l}) \quad \Delta h = 1560 \text{ kJ/mole}$
 $\text{H}_2(\text{g}) + 1/2 \text{O}_2(\text{g}) \rightarrow \text{H}_2\text{O}(\text{l}) \quad \Delta h = 285 \text{ kJ/mole}$

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web hess s law enthalpy of reaction and hess s law abstract the goal of this lab is to perform experiments and practice hess s law by determining enthalpy change in chemical reactions in this lab three experiments were conducted in order to test hess s law the experiments required observing and collecting data on three different reactions

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web objective the purpose of the lab is to combine two reactants in the calorimeter and measure the heats of reaction in solution eventually allowing an individual to prove or disprove hess s law introduction thermodynamics is the study of energy exchanged between the system and the surroundings

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web 3 12 hess s law in this experiment you will measure the amount of heat released in these three related exothermic reactions $\text{NaOH (s)} + \text{NaCl (aq)} \rightarrow \text{NaOH (aq)} + \text{NaCl (aq)}$ $\text{H}_2\text{O (l)} + \text{NaOH (s)} \rightarrow \text{H}_2\text{O (l)} + \text{NaOH (aq)}$ $\text{H}_2\text{O (l)} + \text{NaCl (aq)} \rightarrow \text{H}_2\text{O (l)} + \text{NaCl (aq)}$