



Chapter 4: Lecture Outline

PHYL 141

Chapter 4 - The Tissue Level of Organization

I. INTRODUCTION

- A. *A tissue is a group of similar cells that usually have a similar embryological origin and are specialized for a particular function.*
 - 1. *The nature of the extracellular material that surrounds the connections between the cells that compose the tissue influence the structure and properties of a specific tissue.*
 - 2. *The science that deals with the study of tissues is called histology.*
- B. *Pathologists, physicians who specialize in laboratory studies of cells and tissues, aid other physicians in making diagnoses; they also perform autopsies. Analysis of biopsies, samples of living tissue removed for microscopic examination, is a chief responsibility of a pathologist.*

II. TYPES OF TISSUES AND THEIR ORIGINS

- A. *Depending on their function and structure, the various tissues of the body are classified into four principal types.*
 - 1. *Epithelial tissue covers body surfaces, lines hollow organs, body cavities, and ducts, and forms glands.*
 - 2. *Connective tissue protects and supports the body and its organs, binds organs together, stores energy reserved as fat, and provides immunity.*
 - 3. *Muscle tissue is responsible for movement and generation of force.*
 - 4. *Nervous tissue initiates and transmits action potentials (nerve impulses) that help coordinate body activities.*
 - 5. *Clinical connection: biopsy*

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Annelies Wilder-Smith

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