

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.
 - 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.
 - 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.

IL 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.
 - Epithelial tissue covers body surfaces, lines hollow organs, body cavities, and ducts, and forms glands.
 - 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.
 - Nervous tissue initiates and transmits action potentials (nerve impulses) that help coordinate body activities.
 - Clinical connection: biopsy

Lecture Outline Chapter 4

Xiaolong Qi



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