

Basic Principles of Histology

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INTRODUCTION

Histology (microanatomy) is the study of the human body at a tissue or sometimes at a cellular level. As disease processes occur at the molecular/cellular levels, manifestations of the disease processes are readily and economically observed at the tissue level using a microscope. To examine tissues under a microscope, several steps to acquire, fix, and stain the samples are necessary. In each of the preparatory steps, a variety of artifacts may be introduced to the tissue samples. A variety of staining agents and methods are available as are types of microscopes to help observe necessary cellular and histologic features.

BASIC PRINCIPLES

TECHNIQUES IN HISTOLOGY	
Methods	Purpose
<i>Tissue preparation</i>	
1. Tissue acquisition: Biopsy, surgical resection	1. Sampling tissue to examine microscopically
2. Fixation: Placing tissue samples in a fixative	2. Stopping tissue degradation, killing microorganisms
3. Processing: Series of chemical and heat treatment	3. Removing water from tissue, infiltrating the tissue with hardening agent
4. Embedding: Placing tissue into a hardening agent (paraffin) in a tissue block	4. Placing the tissue into rigid mold
5. Sectioning	5. Slicing the tissue into thin sections (7–12 μm)
6. Staining	6. Staining otherwise transparent tissues with different types of dyes or chemicals to observe cellular details

(continued)

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