

Histology Final Exam Study Guide

Chapter 1: Intro to Histology

"Only the info on stains"

Stains

o Histochemistry and Cytochemistry

- Techniques that differentiates (by staining) a certain part of the cell
- Rely on specific chemical rxns or high-affinity rxns b/t macromolecules

• Peroxidases

- Locates large B cells
- Stains brown



• Phosphatases

- Stains dark
- Uses Gomori Method



• Dehydrogenases

- Stains dark
- Uses Ditetrazole



• Nucleic Acids

- Hematoxylin
 - o Stains nuclei purple
 - o Often paired with Eosin (pink)
 - o "H and E" -- very common initial stain (gives a lot of basic info)
- Sytox Green or Propidium Iodide
 - o Used on fluorescent bacteria
 - o Sytox Green stains green and Propidium Iodide stains red
 - o Fluorescent things are easier to put in a machine that can count cells for us



Hematoxylin = DNA/RNA



• Glycoproteins/Polysaccharides

- Ex. Glycogen
- Periodic Acid Schiff (PAS) shows where mucus (secretions) are prevalent
- "G" = Goblet Cells (produce mucus)

• Glycosaminoglycans/Proteoglycans

- Uses Alcian Blue Dye
- Stains carbohydrates bound to proteins blue
- Circled in red is an Artifact (see below)



• Lipids

- Stains black using Sudan IV



Histology Exam Study Guide

JG Myers



Histology Exam Study Guide:

This book delves into Histology Exam Study Guide. Histology Exam Study Guide is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Histology Exam Study Guide, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Histology Exam Study Guide
 - Chapter 2: Essential Elements of Histology Exam Study Guide
 - Chapter 3: Histology Exam Study Guide in Everyday Life
 - Chapter 4: Histology Exam Study Guide in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Histology Exam Study Guide. The first chapter will explore what Histology Exam Study Guide is, why Histology Exam Study Guide is vital, and how to effectively learn about Histology Exam Study Guide.
 3. In chapter 2, the author will delve into the foundational concepts of Histology Exam Study Guide. The second chapter will elucidate the essential principles that must be understood to grasp Histology Exam Study Guide in its entirety.
 4. In chapter 3, the author will examine the practical applications of Histology Exam Study Guide in daily life. The third chapter will showcase real-world examples of how Histology Exam Study Guide can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Histology Exam Study Guide in specific contexts. This chapter will explore how Histology Exam Study Guide is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Histology Exam Study Guide. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Histology Exam Study Guide.

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