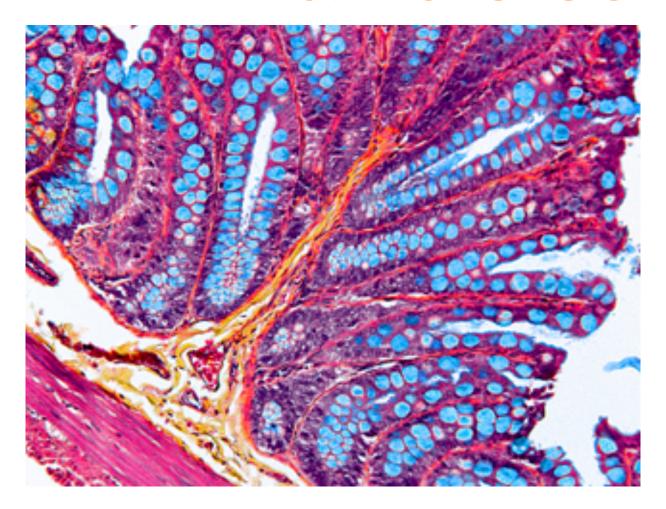
NEPHAR116: HISTOLOGY



Dr. Deniz Balcı deniz.balci@neu.edu.tr

Course Instructor

Dr. Deniz Balcı

Office: 12H417- 4th floor

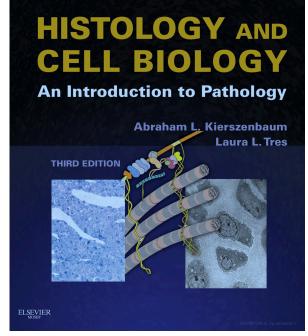
Office Hours: Wednesday at 11:00-12:00

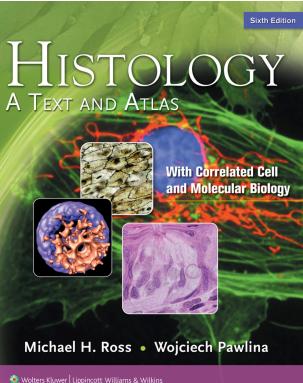
Friday at 13:00-14:00

E-mail: deniz.balci@neu.edu.tr

Course Components

- Reading: Histology and Cell Biology: An Introduction to Pathology 3rd Ed.
 Abraham L Kierszenbaum, Laura L.
- Ross & Pawlina, Histology, A Text and Atlas, 6th edition, 2011
- Lecture series
- Sample questions posted on web
- Virtual microscope: histologyguide.org
- 1 midterm, 1 final exam





Grading

The assessment of this course (Histology sessions) is in two parts:

♦ Midterm 30%

♦ Quizz(es) 10%

♦Final 60%

Total 100%

Attendance

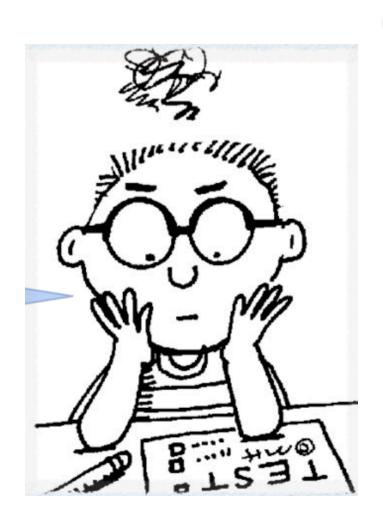
• 70% Attendance is required.

 Bonus will be given only to students whose attendance is more than 70%

 Who do not take midterm and final exams receive an NA grade.

Course Web Site FACEBOOK NEPHAR116 HISTOLOGY FALL 2018

- PowerPoint presentations shown in lecture will be posted for your review
- Animations/reading material for discussion will be posted on facebook
- Course announcements will be posted on facebook

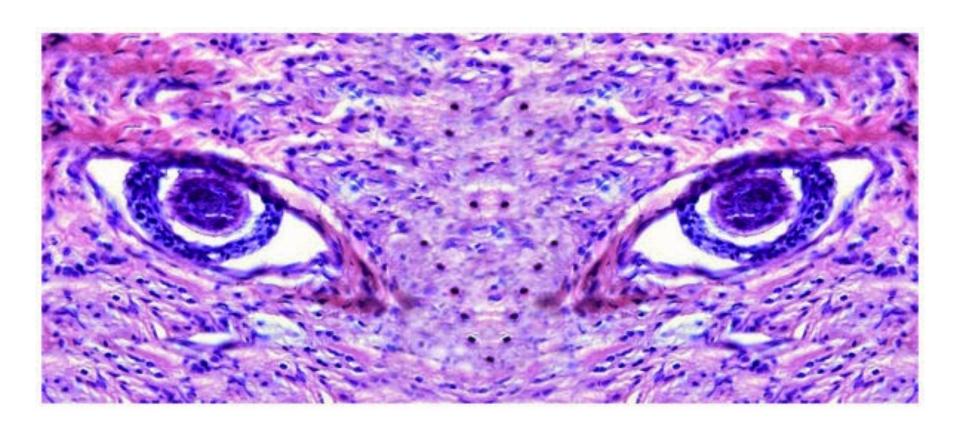


What Do You Expect to learn?

How Do You
 Wish To Learn
 Stuff here?

| Week | Topic | Date |
|------|--|---------------|
| 1 | Introduction to Histology and Terminology | 28/09/2018 |
| 2 | The cell and its Organelles | 5/10/2018 |
| 3 | Epithelial Tissue Properties | 12/10/2018 |
| 4 | Types of covering/lining epithelium/glandular epithelium | 19/10/2018 |
| 5 | Connective Tissue Properties | 26/10/2018 |
| 6 | Classification and examples of connective tissue | 02/11/2018 |
| 7 | Discussion/VIRTUAL LAB | 09/11/2018 |
| 8 | MIDTERM EXAMS | 12-17/11/2018 |
| 9 | Muscle Tissue-Striated muscles | 23/11/2018 |
| 10 | Muscle Tissue-Smooth muscle | 30/11/2018 |
| 11 | Nervous Tissue - CNS | 07/12/2018 |
| 12 | Nervous Tissue - PNS | 14/12/2018 |
| 13 | Microscope & Basic Histological Techniques | 21/12/2018 |
| 14 | Discussion/VIRTUAL LAB | 28/12/2018 |
| 15 | FINAL EXAMS | 7-16/01/2018 |

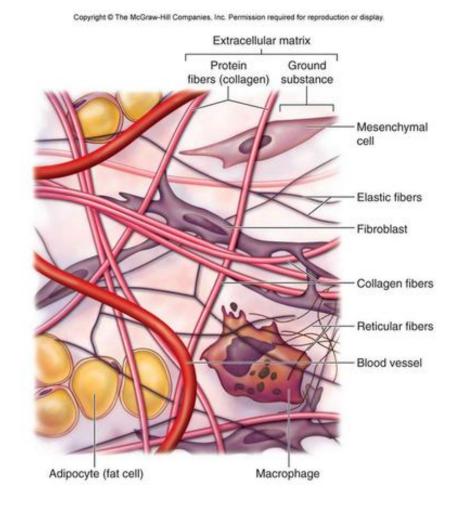
Questions???



What is the definition of Histology?

"Histo" comes from Greek which means "web" or "tissue"

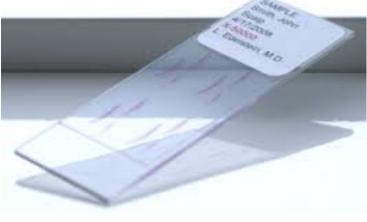
♦ Histology is the scientific study of biological tissues.



What is the definition of Histology?

♦ Histology is the study of the microscopic structures of cells and tissues of plants and animals. It is often carried out by examining a thin slice (called a "section") of tissue under a microscope.





Why are we studying Histology?

- To develop a mental image of the microscopic appearance of cells, structures, tissues, and organs.
- To correlate microscopic appearance with function in health and disease.
- To provide a basis for later study of anatomy and pathology.
- Because it's awesome.

Where does Histology fit in?

- Gross Anatomy
- Microscopic Anatomy (Histology)
- Other Biomedical Science Courses
 - Biochemistry
 - Physiology
 - Microbiology
 - Pathology
 - Pharmacology

Histologic Hierarchy

Is the basic functional unit of all organisms.

Cells



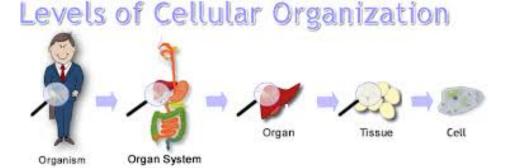
Cells that are similar or function similarly are grouped together to form

Tissues



Tissues are grouped together to form Organs

Organs grouped together to form the Organ system.



Organization of the Body

➤ Body has over 200 different cell types, 100 Trillion cells

Cells can be put into four groups according to their cell function.

Neurons

Muscle cells

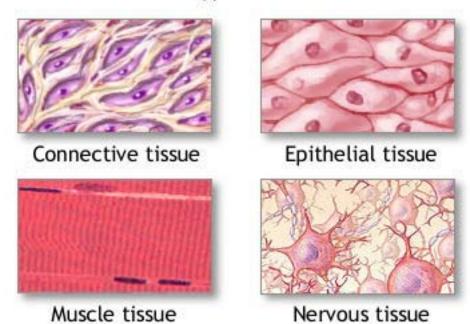
Epithelial cells

Connective tissue cells

Major Tissue Types

- ➤ Based primarily on cell function
- ➤ Correspond to four major cell types

Four types of tissue

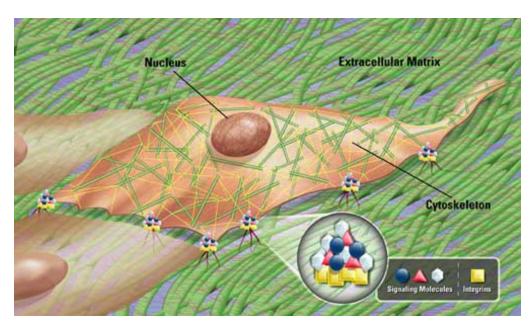




Terminology

Tissues are composed of:

- Cells
- Extracellular matrix



Organs are composed of:

- Parenchyma (cells that perform main function of organ)
- Stroma (supporting tissue)

