Graduate School of Health Sciences / Histology and Embryology Ph.D.

2024 - 2025 Academic Year

FUNCTIONAL HISTOLOGY and ULTRASTRUCTURE

Syllabus

Course Description					
Name	**Code**	**Semester**	**T+A Hour**	**Credit**	**ECTS**
FUNCTIONAL HISTOLOGY and ULTRASTRUCTURE	HSED1269360	Spring Semester	2+4	4	8

Prerequisites Courses	
Recommended Elective Courses	
Language of Instruction	Turkish
Course Level	Third Cycle (Doctorate Degree)
Course Type	Required
Course Coordinator	Prof.Dr. İlknur KESKİN
Name of Lecturer(s)	Prof.Dr. İlknur KESKİN
Assistant(s)	İlknur Keskin
Aim	Histophysiological features of nervous system, digestive system and related glands, endocrine system, respiratory and excretory system, male and female reproductive system and the functionality of the building, the wall organizations of the histological components and their functioning mechanisms, the ultrastructural structures will be taught well, and this information will be visually reinforced with laboratory work.
Course Content	This course contains; Skin and appendages,Central Nervous System,Peripheral Nervous System,Eye,Ear,Male and Female Reproduction System,Midterm,Urinary System,Cardiovascular System,Lymphoid System,Endocrine System,Respiratory system,Digestive System,final exam.

Course Learning Outcomes	**Teaching Methods**	**Assessment Methods**
Explains the skin and its appendages.	14, 9	A, E
Describes the histology of the eye.	14, 18, 9	A
Explains the histology of the female reproductive systems and glands.	14, 9	A
Explains the histology of the central nervous system.	14, 9	A
Explain the histology of the peripheral nervous system.	14, 9	A
Explains the histology of the urinary system.	14, 9	A, E
Describes the histology of the ear.	14, 9	A
Explain the histology of the male reproductive system.	14, 9	A
Explain the histology of the digestive system and its glands.	14, 9	A, E
Explains endocrine system histology.	14, 9	A, E
Explains the histology of the respiratory system.	14, 9	A, E
Explains the histology of the cardiovascular and lymphoid system.	14, 18, 9	A

Teaching Methods	14: Self Study Method, 18: Micro Teaching Technique, 9: Lecture Method
Assessment Methods	A: Traditional Written Exam, E: Homework

Lecture Schedule

Sequence	**Topics**	**Preliminary Preparation**
1	Skin and appendages	Histology Text and Atlas of Associated Cell Biology and Molecular Biology by Michael H. Ross - pages 488-524
2	Central Nervous System	Reading the relevant course presentation
3	Peripheral Nervous System	Reading the relevant course presentation
4	Eye	Histology Text and Atlas of Associated Cell Biology and Molecular Biology by Michael H. Ross - pages 896-926
5	Ear	Histology Text and Atlas of Associated Cell Biology and Molecular Biology by Michael H. Ross - pages 928-948
6	Male and Female Reproduction System	Reading the relevant course presentation
7	Midterm	-
8	Urinary System	Histology Text and Atlas of Associated Cell Biology and Molecular Biology by Michael H. Ross - pages 698-6738
9	Cardiovascular System	Reading the relevant course presentation
10	Lymphoid System	Reading the relevant course presentation
11	Endocrine System	Histology Text and Atlas of Associated Cell Biology and Molecular Biology by Michael H. Ross - pages 740-782
12	Respiratory system	Histology Text and Atlas of Associated Cell Biology and Molecular Biology by Michael H. Ross - pages 664-696
13	Digestive System	Reading the relevant course presentation
14	final exam	

Evaluation Methods	**Weight(%)**
Midterm Exam	50
General Exam	50

Resources

Histology Text And Atlas With Correlated Cell and Molecular Biology, Michael H. Ross;
Junqueira's Basic Histology: Text and Atlas;
Scientific research
Lecture Notes