



AYDIN ADNAN MENDERES UNIVERSITY
GRADUATE SCHOOL OF HEALTH SCIENCES
HISTOLOGY AND EMBRYOLOGY
HISTOLOGY AND EMBRYOLOGY (MEDICAL)
HISTOLOGY AND EMBRYOLOGY (MEDICAL) MASTER'S WITHOUT THESIS
COURSE INFORMATION FORM

Course Title	Cell Differentiation of Embryonic and Adult Cells								
Course Code	THE528	Course Level		Second Cycle (Master's Degree)					
ECTS Credit	6	Workload	150 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	Learning and distinguishing cell differentiation, embryonal and adult cells								
Course Content	learning differentiation mechanism and learning of different cells in embryonic period and adult period								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Individual Study								
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading

1	KÖK HÜCRE. Biyolojisi, Türleri ve Tedavide Kullanımları
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Week	Weekly Detailed Course Contents	
1	Theoretical	Developmental hierarchy of cells
2	Theoretical	Basic properties of stem cells
3	Theoretical	Stem cell niche
4	Theoretical	Life cycle, stress and aging of stem cells
5	Theoretical	article discussion
6	Theoretical	article discussion
7	Intermediate Exam	midterm exam
8	Theoretical	Pluripotent stem cells
9	Theoretical	induced pluripotent stem cells
10	Theoretical	Embryo and fetus-derived multipotent stem cells
11	Theoretical	Adult stem cells
12	Theoretical	Mesenchymal stem cells
13	Theoretical	stem cells in the cardiovascular system
14	Theoretical	Bone marrow and cord blood stem cells
15	Theoretical	article discussion
16	Final Exam	final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	3	2	70
Assignment	10	0	4	40
Individual Work	10	0	4	40
Total Workload (Hours)				150
[Total Workload (Hours) / 25*] = ECTS				6

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Learning the basic properties of stem cells
2	Learning the life cycle, stress and aging of stem cells
3	Learning of pluripotent stem cells



4	Learning of embryo and fetus-derived multipotent stem cells
5	Learning adult stem cells

Programme Outcomes (*Histology and Embryology (Medical) Master's Without Thesis*)

1	To have detailed information about cell structure and function at microscopic level
2	To have theoretical and practical knowledge about experimental methods used in histology
3	To know the ethical rules for publishing and presenting a scientific study
4	To have sufficient knowledge about the laboratory methods used in fertilization and assisted reproduction
5	to have enough knowledge about the general characteristics of human embryology

Contribution of Learning Outcomes to Programme Outcomes *1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High*

	L1	L2	L3	L4	L5
P1	4	4	3	4	3
P2	4	3	4	3	4
P3	3	3	4	4	3
P4	3	3	3	4	4
P5	4	4	4	3	3

