

## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	ation of Embry	onic and Ad	ult Cells					
Course Code	THE528		Couse 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 diff		entiation mecl	nanism and I	earning of	different cells i	n embryonio	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

Week	<b>Weekly Detailed Cour</b>	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*] = <b>ECTS</b>					6	
*25 hour workload is accepted as 1 ECTS						

Learn	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					



Programme Outcomes (Histology and Embryology (Medical) Master)						
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	3	4	3	4	4
P2	4	3	4	3	4
P3	4	3	3	4	4
P4	3	4	3	3	4
P5	4	3	3	4	2

