



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Basic Properties of Stem Cells							
Course Code		THE633		Course Level		Third Cycle (Doctorate Degree)			
ECTS Credit	6	Workload	150 (<i>Hours</i>)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		Stem cell, properties, where they are located, tasks and stem cell culture methods to comprehend, for the diagnosis and treatment of health use in the framework of ethical responsibility is to teach.							
Course Content		Stem cell general characteristics, varieties, places of these cells and differentiation potentials, culture of the cells in the appropriate environment for the growth of the living environment, research, diagnosis and treatment (artificial organ and regenerative medicine) to learn the use of							
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	stem cells
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Week	Weekly Detailed Course Contents	
1	Theoretical	Stem cell identification, basic properties, niche and life cycle
2	Theoretical	Stem cell types
3	Theoretical	Distribution of stem cells in human body
4	Theoretical	Stem cell markers and flow cytometry
5	Theoretical	Stem cell and culture
6	Theoretical	Stem cell and molecular biology methods
7	Theoretical	Stem cell and histological methods
8	Intermediate Exam	mid-term exam
9	Theoretical	Stem cell and regenerative medicine
10	Theoretical	Bone marrow banking
11	Theoretical	Cord blood banking
12	Theoretical	Stem cells and diseases
13	Theoretical	Stem cells and diseases
14	Theoretical	Stem cell and treatment models
15	Theoretical	Stem cell and ethics
16	Final Exam	final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	3	2	70
Assignment	10	0	4	40
Term Project	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	Students will learn the definition, types and sources of stem cells.
2	Students will have knowledge about the production and propagation of embryonic stem cells.



3	Students will learn the differentiation and differentiation capacity of embryonic stem cells and their applications.
4	Students will be able to discuss scientific studies on stem cell therapy and discuss stem cell policies.
5	Students will be able to do research on stem cell disease treatment

Programme Outcomes (*Histology and Embryology Medical*) *Doctorate*)

1	To have basic laboratory skills and attitudes
2	To be a scientist with strong educational background and presentation.
3	To have information about laboratory safety
4	To learn the histology and embryonic development of related organs and systems
5	To know the differences between related organs at the tissue level.

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	5	4	3	4	4
P2	5	5	4	5	5
P3	4	5	3	3	4
P4	3	3	5	2	3
P5	4	3	4	4	5

