

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title Hematopoesis and Hematopoetic Stem Cell								
Course Code	KHÜ526		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit 8	Workload	203 (Hours)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course To understand hematopoiesis and hematopoietic stem cell								
Course Content Basic concepts in hematopoiesis, definition of stem hematopoietic stem cells and microenvironment, cl						tween		
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	20	
Final Examination	1	60	
Assignment	1	20	

Recommended or Required Reading

- 1 Teoman Soysal . Kök hücre ve biyolojisi ve uygulama alanları (2014) Hematolog Türk Hematoloji derneği yayını
- 2 Greer J, Arber D, Glader B, List A, Menas R, Paraskevas F, Rogres G. Wintrobes Clinical Hematology, Lippincott, 2014.

Week	Weekly Detailed Cour	se Contents
1	Theoretical	Hematopoiesis (granulocytes)
2	Theoretical	Hematopoesis (erythrocyte)
3	Theoretical	Hematopoiesis (platelets)
4	Theoretical	Basic concepts in hematopoietic stem cells
5	Theoretical	Definition of hematopoietic stem cells
6	Theoretical	Hematopoietic stem cell types
7	Theoretical	Niche concept in stem cell
8	Intermediate Exam	Mid-term exam
9	Theoretical	Hematopoietic stem cell markers
10	Theoretical	Hematopoietic stem cell proliferation dynamics and location
11	Theoretical	Hematopoietic stem cells in cord blood
12	Theoretical	Hematopoietic stem cell usage-I
13	Theoretical	Hematopoietic stem cell usage-II
14	Theoretical	Hematopoietic stem cell usage-III
15	Final Exam	Final exam

Lecture - Theory 13 1 2 39 Assignment 4 20 2 88 Midterm Examination 1 24 2 26 Final Examination 1 48 2 50	Workload Calculation						
Assignment 4 20 2 88 Midterm Examination 1 24 2 26 Final Examination 1 48 2 50	Activity	Quantity	Preparation	Duration	Total Workload		
Midterm Examination 1 24 2 26 Final Examination 1 48 2 50	Lecture - Theory	13	1	2 39			
Final Examination 1 48 2 50	Assignment 4 20 2 88						
	Midterm Examination	26					
Total Workland (Hours) 202	Final Examination	1	48	2	50		
Total Workload (Hours) 203		203					
[Total Workload (Hours) / 25*] = ECTS 8	8						
*25 hour workload is accepted as 1 ECTS							

Learn	ing Outcomes
1	Have comprehensive and in-depth knowledge of hematopoiesis
2	Hematopoietic defines the stem cell



- Knows the clinical use of hematopoietic stem cells
 Knows hematopoietic stem cell markers
 Has an idea about hematopoietic stem cell proliferation dynamics
- Programme Outcomes (Stem Cell and Regenerative Medicine Interdisciplinary Master) To have comprehensive and in-depth knowledge of Stem Cell and Regenerative Medicine To have information about stem cell production and characterization 3 To learn stem cell sources, stem cell types and their differences 4 To understand the molecular and genetic structure of stem cells 5 To be able to learn and make stem cell culture methods 6 To be able to adapt the knowledge in the field of stem cells to research in line with current developments 7 To be able to use molecular laboratory methods used in stem cell research 8 Learning in vitro disease models and in vivo experiments related to stem cells To have knowledge about stem cell therapies and clinical use 9 Conduct independent research in accordance with the principles of research and publication ethics 10

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	1	3	3	3	3
P2		3	3	3	3
P3		2	2	2	2
P6		3	3	3 (3
P9	4	4	4	4	4

