TH	HE MOLECULAR MEC		SMS OF CELL AGING AND CELL						
		D	EATH						
1	Course Title:	THE MOLECULAR MECHANISMS OF CELL AGING AND CELL DEATH							
2	Course Code:	TTB 50	09						
3	Type of Course:	Optiona	al						
4	Level of Course:	Second	Cycle						
5	Year of Study:	1							
6	Semester:	1							
7	ECTS Credits Allocated:	5.00							
8	Theoretical (hour/week):	2.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to	face						
14	Course Coordinator:	Prof. Di	r. Berrin Tunca						
15	Course Lecturers:	Doç. Dr	. Gülşah ÇEÇENER						
16	Contact information of the Course Coordinator:	0224 29 ULUDA	@uludag.edu.tr 95 41 61 Ğ ÜNİVERSİTESİ TIP FAKÜLTESİ İYOLOJİ ANABİLİM DALI						
17	Website:								
18	Objective of the Course:		g basic consepts of cell aging and death and linking n other subjects, making clinical approach possible and						
19	Contribution of the Course to								
	Professional Development:								
20	Learning Outcomes:								
20	'	1	Understanding basic consepts of cell aging.						
20	'	1 2	Understanding basic consepts of cell aging. Learning types of cell death and signal pathways						
20	'	2	, , ,						
20	'	2 3 4	Learning types of cell death and signal pathways Understanding the relation between types of cell death and						
20	'	2 3 4 5	Learning types of cell death and signal pathways Understanding the relation between types of cell death and						
20	'	2 3 4 5 6	Learning types of cell death and signal pathways Understanding the relation between types of cell death and						
20	'	2 3 4 5 6 7	Learning types of cell death and signal pathways Understanding the relation between types of cell death and						
20	'	2 3 4 5 6 7 8	Learning types of cell death and signal pathways Understanding the relation between types of cell death and						
20	'	2 3 4 5 6 7 8 9	Learning types of cell death and signal pathways Understanding the relation between types of cell death and						
	Learning Outcomes:	2 3 4 5 6 7 8	Learning types of cell death and signal pathways Understanding the relation between types of cell death and						
20	'	2 3 4 5 6 7 8 9	Learning types of cell death and signal pathways Understanding the relation between types of cell death and diseases.						
21	Learning Outcomes: Course Content:	2 3 4 5 6 7 8 9	Learning types of cell death and signal pathways Understanding the relation between types of cell death and diseases. ourse Content:						
21 Week	Learning Outcomes: Course Content: Theoretical	2 3 4 5 6 7 8 9	Learning types of cell death and signal pathways Understanding the relation between types of cell death and diseases.						
21 Week 1	Learning Outcomes: Course Content: Theoretical Cell cycle and regulation	2 3 4 5 6 7 8 9	Learning types of cell death and signal pathways Understanding the relation between types of cell death and diseases. ourse Content:						
21 Week	Learning Outcomes: Course Content: Theoretical	2 3 4 5 6 7 8 9	Learning types of cell death and signal pathways Understanding the relation between types of cell death and diseases. ourse Content:						

4	Nekro	osis															
5	Autophagy																
6	Cell aging																
7	Factors of cell aging					Т											
8	Effect of free radicals on cell aging																
9	Effect of lysosomal damage on cell aging						Т										
10	Effect of mitochondrial damage on cell aging																
11	Role of telomer on cell aging						T										
12	Effect of DNA damage on cell aging																
13	Genes and aging																
14	Protective role of anti-oxidants on cell aging																
22	Textbooks, References and/or Other Materials:																
23	Asse	sme	nt						•								
TERM L	EARN	IING	ACTI	VITIES			N F	IUMBE	W	EIGHT							
Midtern	n Exai	m					C		0.0	0.00							
Quiz	Quiz 0							0.0	0.00								
Home v	lome work-project 0							0.0	0.00								
Final E	Final Exam 1						10	100.00									
Activites						Number				Duration (hour)			Total Work Load (hour)				
Chedribtidan of Final Exam to Success Grade						10	100400			1.00			14.00				
Practica	acticals/Labs								0 0.00 0.00								
โดยโรเนย์ทอกชากเดาะงิสโยสิเอก Techniques Used in the							e	14 3.00 42.				42.00	2.00				
Homeworks							0 0.0						0.00				
Project	24 ECTS / WORK LOAD TABLE						(0			0.00			0.00			
Field S	Studies							(0 0.00					0.00			
Midtern	erm exams							(0			0.00					
Others	3							1						2.00			
	Exams						_	1 2.00 2.00									
	l Work Load							60.00									
	al work load/ 30 hr								2.00								
ECIS	ECTS Credit of the Course												5.00				
25			(CON.	TRIB	UTIO	N O				OUTC		S TO I	PROG	SRAM	ME	
	P	Q1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	3	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	3	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	3	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			ı	_O: I	.earn	ina C)bied	ctives	, F	PQ: P	rogra	m Qu	L alifica	tions	<u> </u>	1	<u> </u>
LO: Learning Objectives PQ: Program Qualifications																	

Contrib	1 very low	2 low	3 Medium	4 High	5 Very High
ution					
Level:					