

SPECIAL ISSUES IN MOLECULAR BIOLOGY

1	Course Title:	SPECIAL ISSUES IN MOLECULAR BIOLOGY	
2	Course Code:	TTB 6007	
3	Type of Course:	Optional	
4	Level of Course:	Third Cycle	
5	Year of Study:	1	
6	Semester:	1	
7	ECTS Credits Allocated:	5.00	
8	Theoretical (hour/week):	3.00	
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. Dr. ÜNAL EGELİ	
15	Course Lecturers:	Prof.Dr.Berrin TUNCA Doç. Dr.Gülşah ÇEÇENER	
16	Contact information of the Course Coordinator:	egeli@uludag.edu.tr 0224 295 41 51 ULUDAĞ ÜNİVERSİTESİ TIP FAKÜLTESİ TIBBİ BİYOLOJİ ANABİLİM DALI	
17	Website:		
18	Objective of the Course:	Learning new and actual technologies of genetic material, understanding rescent informations about molecular structure and function of DNA and RNA and linking between other subjects, making clinical approach possible and easier.	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	Understanding advanced and actual consepts of cell biology.
		2	Understanding the molecular alterations in the cell and linking to related diseases.
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21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1	Growth factors and their mechanisms		

2	Interferons	
3	Monoclonal anticors	
4	Transcription factors	
5	Genomic imprinting	
6	Uniparental isodisomy	
7	DNA methylation	
8	Fragile regions	
9	Mitochondrial DNA	
10	Cytoplasmic heredity	
11	Basic mechanisms of cell differentiation	
12	Description of stem cells	
13	Uses of stem cells	
14	Regulation of Immune system.	

22	Textbooks, References and/or Other Materials:	Molecular Biology of the Cell, Alberts, Garland Science Molecular Cell Biology, Lodish, WH Freeman and Company The Cell: A molecular Approach , Geoffrey M. Copper,
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23	Assesment	
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TERM LEARNING ACTIVITIES		NUMBER	WEIGHT		
Activites		Number	Duration (hour)	Total Work Load (hour)	
Theoretical	14	3.00	42.00		
Home work-project	5	0.00			
Practicals/Labs	0	0.00	0.00		
Self study and preperation	14	4.00	56.00		
Total	6	100.00			
Homeworks	5	9.00	45.00		
Projects	0	0.00	0.00		
Field Studies	0	0.00	0.00		
Midterm exams	0	0.00	0.00		
Total	1	100.00			
Others	1	5.00	5.00		
Measurement and Evaluation Techniques Used in the Course	1	2.00	2.00		
Total Work Load				150.00	
Total work load/ 30 hr				5.00	
ECTS Credit of the Course				5.00	

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	5	5	0	0	0	0	3	3	0	0	0	0	0	0	0	0
ÖK2	5	5	0	0	0	0	3	3	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	1 very low		2 low		3 Medium		4 High		5 Very High							