EUKARYOTIC MOLECULAR GENETICS											
1	Course Title:	EUKAR	OTIC MOLECULAR GENETICS								
2	Course Code:	BIO6405	6								
3	Type of Course:	Optional									
4	Level of Course:	Third Cy	cle								
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 f	face								
14	Course Coordinator:	Prof. Dr.	SEZAİ TÜRKEL								
15	Course Lecturers:										
16	Contact information of the Course Coordinator:	0224 294	4 1782 / e-posta: sturkel@uludag.edu.tr								
17	Website:										
18	Objective of the Course:	To under of gene e	rstand the structure, organization and control mechanisms expression in eukaryotic genes.								
19	Contribution of the Course to Professional Development:										
20	Learning Outcomes:										
		1	Knows kromatin structure and organisation in eukaryotes.								
		2	Knows gene structure and organisation in eukaryotes.								
		3	Knows control mechanisms in gene clusters in eukaryotes.								
		4	Knows the effects of cellular and environmental signals on gene expresion in eukaryotes.								
		5	Knows how to analyze current data on eukaryotic gene expression by means of bioinformatic tools.								
		6									
		7									
		8									
		9									
		10									
21	Course Content:										
14/		Co	burse Content:								
Week			Practice								
1	methods in eukaryotes.	anaiysis									
2	Structure and organization of eukary kromatins, histone modifications.	otic									
3	Control mechanisms of DNA replicat	ion									
4	RNA polymerases, control mechanis Itranscription.	ms of									

5	RNA	RNA processing																		
6	Post	Post transcriptional regulation																		
7	Cont stabi	Control mechanisms by RNA localization and stability.																		
8	Repe	epeating courses and midterm exam																		
9	Gene euka	Genetic code, translation initiation in eukaryotes.																		
10	Tran	slati	onal r	egfulat	tion .															
11	Homework. Discussion of homework and presentation, assignments of topics.																			
12	DNA	DNA repair in eukaryotes,																		
13	Geno gene	Genome structure and regulation of organel genes																		
14	Mate	ernal	gene	s and	omic	studies	i													
22	Textbooks, References and/or Other Materials:								1. 2 Ce	 B. Lewin. Genes IX. Jones and Bartlett Publishers. Selected articles from Cell., Science., Molecular and Cellular Biology, Eukaryotic Cell journals. 										
23	3 Assesment																			
TERML	LEAR	NING	ACTI	VITIES	;		N	IUMBE	E WE	WEIGHT										
Midterr	m Exa	m					1		25	25.00										
Quiz							0)	0.0	0.00										
Home work-project 1 Activites								25	Numb	er		Dura	Duration (hour)			Total Work Load (hour)				
Checkribution of Term (Year) Learning Activities to								50	1040			3.00	3.00			42.00				
Practic	Practicals/Labs									<u>с</u>			0.00	0.00						
Self stu	Contribution of Final Exam to Success Grade									140			4.00	4.00			56.00			
Homev	Homeworks									1				27.00			27.00			
Megsu	Versitement and Evaluation Techniques Used in the									0				0.00			0.00			
Field S	Field Studies									C			0.00	0.00			0.00			
Midterr	lidterm exams									-1				25.00			25.00			
Others	hers										0					0.00				
Final E	nal Exams										1				30.00					
Total V	otal Work Load																180.00			
Total w	Total work load/ 30 hr									6.00										
ECTS	CTS Credit of the Course									5.00										
25	5 CONTRIBUTION OF LEARNING OUTCO QUALIFICATION												S TO I	PROG	GRAM	ME				
	F	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16			
ÖK1	5	5	3	0	0	0	0	4	0	0	0	0	0	0	0	0	0			
ÖK2	4	4	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0			
ÖK3	C)	0	0	0	4	0	3	0	0	0	0	0	0	0	0	0			
ÖK4	0)	0	0	3	0	0	4	4	0	0	0	0	0	0	0	0			

ÖK5	5	3	0	0	3	0	5	0	4	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:				2 Iow	3 Medium			4 High			5 Very High					