MOLECULAR GENETICS										
1	Course Title:	MOLECU	JLAR GENETICS							
2	Course Code:	MBG300	1-BH							
3	Type of Course:	Compuls	ory							
4	Level of Course:	Third Cy	cle							
5	Year of Study:	0								
6	Semester:	0								
7	ECTS Credits Allocated:	6.00								
8	Theoretical (hour/week):	3.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:									
12	Language:	Turkish								
13	Mode of Delivery:	Face to f	ace							
14	Course Coordinator:	Prof. Dr.	SEZAİ TÜRKEL							
15	Course Lecturers:	1								
16	Contact information of the Course Coordinator:	sturkel@	uludag.edu.tr							
17	Website:									
18	Objective of the Course:	To teach different	structure, expression and control mechanisms of genes in organisms and organelles.							
19	Contribution of the Course to Professional Development:	Knows g	ene structures and expresssion							
20	Learning Outcomes:									
		1	Learns gene structures							
		2	Learns molecular mechanisms of gene regulations							
		3	Learns control mechanisms of gene expressions in different organisms							
		4								
		5								
		6								
		7								
		8								
		9								
		10								
21	Course Content:									
		Co	urse Content:							
Week	Theoretical		Practice							
1	Introduction, DNA structure and pack	kaging								
2	Genome organization in different org	janisms								
3	Basic principles of transcription and polymerases	RNA								
4	Control mechanisms of transcription different gene groups in eukaryotes	in -1								
5	Control mechanisms of transcription different gene groups in eukaryotes	in -1								

-	RNA pro	local	zation															
7	Gene str and cont	ucture rol me	and c	organi sms o	zations f gene	s in ba expre	cteria, ssion	1										
8	The gene	e genetic code. Introduction to translation																
9	Mechani	sms o	f trans	lation	al cont	rol												
10	Genome mechani mitochor	orgar sms o ndria n	iizatio f gene ad chl	n in oi expre loropla	rganell ession ast	es, co in	ontrol											
11	protoonc	ogene	es and	their	cellula	r funct	tions											
12	post tran its signifi	slatior cance	nal reg	lation	mecha	anism	s and											
13	Gene str viruses, expressi	ucture contro on in v	and o I mech viruses	organi nanisr s-1	zation ns of g	in diffe ene	erent											
14	Gene str viruses, expression	ucture contro on in v	and o I mech viruses	organi nanisr s-2	zation ns of g	in diffe ene	erent											
22	Textbooks, References and/or Other Materials:								1- Genomlar 3: T.A. Brown., Çeviri editörü: F. Bardakçı, C. Ülger. 2015 (İngilizce/Türkçe) Barkod (ISBN) : 978-605-320-207-3 2- Lewin's Genes XII. (İngilizce) Barkod: 13: 978-1-284-10449-3 3- Moleküler Biyoloji, Editör . Prof.Dr. M Karataş (Türkçe) Barkod: 978-605-88012-7-1 4- Temel Moleküler Biyoloji, Lisabeth A. Allison. Çeviri									
Activites							1	Numb	er		Duration (hour)			Total Work Load (hour)				
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LO: Learning Objectives PQ: Program Qualifications																	
Contrib ution Level:	1 \	/ery	ow	:	2 low			3 Medium			4 High			5 Very High			