

GENE THERAPY IN IMMUNOLOGY

1	Course Title:	GENE THERAPY IN IMMUNOLOGY	
2	Course Code:	TMI6010	
3	Type of Course:	Optional	
4	Level of Course:	Third Cycle	
5	Year of Study:	1	
6	Semester:	2	
7	ECTS Credits Allocated:	5.00	
8	Theoretical (hour/week):	1.00	
9	Practice (hour/week):	4.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	NONEYok	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. BARBAROS ORAL	
15	Course Lecturers:	-	
16	Contact information of the Course Coordinator:	Uludağ Üniversitesi, Tıp Fakültesi, Tıbbi Mikrobiyoloji Anabilim Dalı, İmmünoloji Bilim Dalı, 16059, Nilüfer, BURSA E-mail: oralb@uludag.edu.tr Phone: 2954114	
17	Website:		
18	Objective of the Course:	The aim of this course is to provide knowledge to the student about different gene transfer techniques and usage of potential immune therapeutic genes.	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	To gain knowledge about the basic principals of gene therapy and its associated risks and challenges
		2	To comprehend the mechanisms of gene transfer techniques
		3	To be aware of some diseases that might be treatable by targeting immune genes
		4	
		5	
		6	
		7	
		8	
		9	
		10	
21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1	Potential therapeutic genes in Immunology	DNA database screening	
2	Viral vectors	Primer and probe design	
3	Non-viral vectors	Calculation of primer and probe concentrations and preparation of master mix	

LO: Learning Objectives PQ: Program Qualifications

Contribution Level:	1 very low	2 low	3 Medium	4 High	5 Very High
----------------------------	-------------------	--------------	-----------------	---------------	--------------------