TRANSLATIONAL MEDICINE

1	Course Title:	TRANSLATIONAL MEDICINE	
2	Course Code:	TIP2140	
3	Type of Course:	Optional	
4	Level of Course:	First Cycle	
5	Year of Study:	2	
6	Semester:	3	
7	ECTS Credits Allocated:	1.00	
8	Theoretical (hour/week):	1.00	
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:	Dr. Ögr. Üyesi ELİF UZ	
15	Course Lecturers:	-	
16	Contact information of the Course Coordinator:	Dr. Öğr. Üyesi Elif UZ Bursa Uludağ Üniversitesi, Fen-Edebiyat Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, 16059, Nilüfer, BURSA, elifuz@uludag.edu.tr, +90 224 294 1776	
17	Website:		
18	Objective of the Course:	The content of this course will begin with understanding the structure and functions of macromolecules in the cell and gene expression from DNA to protein. Then, cell organelles will be explained at an advanced level, both in terms of structure and function. In the last part, details of the communication of cells with each other, signaling pathways, cancer, cell death, stem cells, tissue regeneration and immune cells will be taught.	
19	Contribution of the Course to Professional Development:	The content of this course will begin with understanding the structure and functions of macromolecules in the cell and gene expression from DNA to protein. Then, cell organelles will be explained at an advanced level, both in terms of structure and function. In the last part, details of the communication of cells with each other, signaling pathways, cancer, cell death, stem cells, tissue regeneration and immune cells will be taught.	
20	Learning Outcomes:		
		1	To understand the basic concepts of cell biology, organelles, and the functional relationships of cells with each other
		2	Gain the ability to associate changes occurring at the cell-based molecular level with relevant diseases
		3	Learning cellular therapy methods and adapting them to the clinic
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21	Course Content:	
	Course Content:	
Week	Theoretical	Practice
1	Introduction to Cytology	
2	Cell Structure and Skeleton	
3	Cellular Macromolecules	
4	Cell Organelles	
5	Cellular Communication	
6	Cell Death Mechanisms	
7	Cell Signaling Pathways	
8	Tissue Differentiation and Regeneration	
9	Stem Cells, Cancer Cells and Immune Cells	
10	Cellular Mechanisms in the Formation of Diseases	
11	Cellular Treatment Methods	
12	Biosafety of Cellular Therapies and Ethical Issues	
13	Advantages and Disadvantages of Cellular Treatment Approaches	
14	Translational Medicine and Cytology	

22	Textbooks, References and/or Other Materials:	Molecular Biology of the Cell - 7th edition Bruce Alberts (Author) Publisher ? : ? Norton & Company; 7th edition (1 July 2022) Language ? : ? English
23	Assesment	

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	0	0.00
Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	100.00
Total	1	100.00
Contribution of Term (Year) Learning Activities to Success Grade		0.00
Contribution of Final Exam to Success Grade		100.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		Measurement and evaluation are carried out according to the principles of Bursa Uludağ University Postgraduate Education Regulation.

24	**ECTS / WORK LOAD TABLE**

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	1.00	14.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	0	0.00	0.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	8.00	8.00
Others	0	0.00	0.00
Final Exams	1	8.00	8.00
Total Work Load			30.00
Total work load/ 30 hr			1.00
ECTS Credit of the Course			1.00

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	4	3	4	3	5	3	3	4	2	4	4	3	3	4	4
ÖK2	5	5	4	3	4	4	4	4	5	3	4	4	4	5	4	4
ÖK3	5	4	5	5	4	4	5	4	4	3	4	3	4	4	4	5

LO: Learning Objectives PQ: Program Qualifications

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