

GAZİ UNIVERSITY FACULTY OF MEDICINE
2023-2024 EDUCATIONAL YEAR
1st YEAR

FROM MOLECULE TO CELL COMMITTEE (03.11.2023- 13.12.2023)

COURSES	THEORETICAL	PRACTICAL	TOTAL
Medical Biology	34	2x4	36
Medical Biochemistry	20	6x2	26
Medical History and Ethics	18	---	18
Public Health	12	2x2	14
Biophysics	7	---	7
Panel	1	---	1
TOTAL	92	10	102
INTRODUCTION TO CLINICAL PRACTICE			
CRITICAL THINKING AND ART	6	8	14
ELECTIVE COURSE	12	---	12
TOTAL	110	18	128

OBLIGATORY COURSES

Turkish Language	12
Ataturk's Principles and History of His Revolutions	12
English	12

Dean	Prof. Dr. Alper CEYLAN
Vice Dean	Doç. Dr. Asiye UĞRAŞ DİKMEN
Vice Dean	Doç. Dr. Nazmi Mutlu KARAKAŞ
Head Coordinator	Prof. Dr. Çiğdem ÖZER
Assistant Head Coordinator	Prof. Dr. Mehmet Ali ERGÜN
Assistant Head Coordinator	Prof. Dr. Akif Muhtar ÖZTÜRK
Phase I Coordinator	Dr. Öğr. Üyesi Meltem SEVGİLİ
Assistant Phase I Coordinator	Dr. Öğr. Üyesi Melek YAMAN
Assistant Phase I Coordinator	Dr. Öğr. Üyesi Kerem ATALAR
Assistant Phase I Coordinator	Dr. Öğr. Üyesi Duygu DAYANIR
Assistant Phase I Coordinator	Dr. Öğr. Üyesi Sultan Pınar ÇETİNTEPE

MEMBERS OF COMMITTEE

MEDICAL BIOLOGY	MEDICAL BIOCHEMISTRY	PUBLIC HEALTH	CRITICAL THINKING AND ART
Dr. Ece KONAÇ	Dr. Mustafa KAVUTÇU	Dr. F. Nur AKSAKAL	Dr. Meltem YALINAY
Dr. Atiye Seda YAR SAĞLAM	Dr. Neslihan BUKAN	Dr. Hakan TÜZÜN	Dr. Fikret AKATA
Dr. H. İlke ÖNEN	Dr. Cengiz KARAKAYA	Dr. Cansu ÖZBAŞ	Dr. Serdar KULA
Dr. Nuray VAROL	Dr. Kübranur ÜNAL		Dr. Hayrunnisa BOLAY BELEN
			Dr. Elvan İŞERİ
			Dr. Gülendamar BOZDAYI
BIOPHYSICS	MEDICAL HISTORY AND ETHICS		Dr. Özlem COŞKUN
Dr. Arın TOMRUK	Dr. Namık ÇENÇEN		Dr. İrem EKMEKÇİ ERTEK

CRITICAL THINKING AND ART COORDINATOR	Prof. Dr. Meltem YALINAY
ELECTIVE COURSE COORDINATOR	Doç. Dr. Ergin DİLEKÖZ

LEARNING OBJECTIVES AND GOALS

Information

1. To be able to classify and explain the structural and biochemical properties of carbohydrates, lipids and vitamins, evaluate their functional properties and clinical importance
2. To be able to define PH concept and buffer systems in the body
3. Be able to explain the general properties of RNA and protein synthesis in prokaryotic and eukaryotes, the molecules involved and the mechanisms by which they are controlled
4. To explain the properties of the genetic code, to define the molecules and their properties in gene expression control, to differentiate in cells, to gain function, to explain the molecules and controls that control aging and death events
5. To be able to explain the molecular effects and properties of genes involved in early embryo development
6. Explain the causes of DNA mutation and the properties of molecules involved in DNA repair mechanisms
7. Molecular formation and development steps of cancer and the classification of the gene groups involved in this process and the ability to count the properties
8. To be able to explain the application areas of recombinant DNA technology and biotechnology in medicine
9. Explaining the definition of epidemiology and its usage areas, counting the types and types of research planning, explaining biostatistics concepts
10. To be able to count the importance tests and to be able to say the properties and usage conditions of parametric and non-parametric materiality tests
11. To be able to say electromagnetic (EM) field concept and its sources
12. To be able to explain the permeability of tissues to electric and magnetic fields
13. To be able to explain the biological effects of low frequency (ELF) E and B areas with examples
14. To be able to list the main sources and biological effects of radio wave (RF) / microwave (MW) radiation
15. To explain mobile phone frequencies and SAR concept, To evaluate the effect of mobile phone on medical devices
16. Evaluate national and international standards for protection against EM radiation and apply practical suggestions to protect it in daily life
17. To be able to define the difference between general public exposure and occupational exposure standards
18. Revolutionary changes in the history of medicine leading to the development of the profession of physicians, physicians who leave a trace, in the light of the fundamental events that create a transformation, to explain the evolution of medicine with an evolutionary approach, to explain the concept of ethics

Skills

19. To be able to choose the materiality test that can be used according to the characteristics of the data and to evaluate the suitability of the frequently used statistical tests in scientific publications
20. DNA isolation and conduction of DNA in agarose gel
21. To be able to perform quantitative test result with spectrophotometer

MONDAY	6.11.2023	08:30 - 09:20	Epidemiology and its application topics Dr. C. Özbaş
		09:30 - 10:20	Planning an epidemiological research Dr. C. Özbaş
		10:30 - 11:20	Eleştirel Düşünme ve Yaratıcı Problem Çözme Becerileri Dr. M. Yalınay
		11:30 - 12:20	Eleştirel Düşünme ve Yaratıcı Problem Çözme Becerileri Dr. M. Yalınay
		13:30 - 14:20	ENGLISH
		14:30 - 15:20	
		15:30 - 16:20	ELECTIVE COURSES
		16:30 - 17:20	
TUESDAY	7.11.2023	08:30 - 09:20	Free Study Time
		09:30 - 10:20	Free Study Time
		10:30 - 11:20	Free Study Time
		11:30 - 12:20	Free Study Time
		13:30 - 14:20	Classification of Carbohydrate and monosaccharides Dr. M. Kavutçu
		14:30 - 15:20	Disaccharides Dr. M. Kavutçu
		15:30 - 16:20	The emergence of the first cell Dr. H.İ. Önen
		16:30 - 17:20	Free Study Time
		18:00 - 18:50	Ataturk's Principles and History of His Revolutions
WEDNESDAY	8.11.2023	08:30 - 09:20	Sosyal Medya ve Eleştirel Düşünme Dr. S. Kula
		09:30 - 10:20	Sosyal Medya ve Eleştirel Düşünme Dr. S. Kula
		10:30 - 11:20	Physician's identity, Deontology and concepts of medical ethics Dr. N. Çençen
		11:30 - 12:20	Physician's identity, Deontology and concepts of medical ethics Dr. N. Çençen
		13:30 - 14:20	Polysaccharides and other carbonhydrates Dr. M. Kavutçu

		14:30 - 15:20	Exam assessment and coordinator's office meeting
		15:30 - 16:20	Free Study Time
		16:30 - 17:20	Turkish Language
THURSDAY	9.11.2023	08:30 - 09:20	Free Study Time
		09:30 - 10:20	Study population, sample and sampling methods Dr. C. Özbaş
		10:30 - 11:20	Endosymbiosis and eukaryotic cell development Dr. A.S. Yar Sağlam
		11:30 - 12:20	The evolution of genes and genomes Dr. A.S. Yar Sağlam
		13:30 - 14:20	Glycoproteins and derivatives Dr. K. Ünal
		14:30 - 15:20	Glycoproteins and derivatives Dr. K. Ünal
		15:30 - 16:20	Medical Ethics Dr. N. Çençen
		16:30 - 17:20	Medical Ethics Dr. N. Çençen
FRIDAY	10.11.2023	08:30 - 09:20	Data collection, Questionnaire preparing Dr.H. Tüzün
		09:30 - 10:20	Presentation of data, preparation of tables and graphics Dr.H. Tüzün
		10:30 - 11:20	Control Mechanisms of Gene Expression Dr. A.S. Yar Sağlam
		11:30 - 12:20	Control Mechanisms of Gene Expression Dr. A.S. Yar Sağlam
		13:30 - 14:20	Control Mechanisms of Gene Expression Dr. A.S. Yar Sağlam
		14:30 - 15:20	Fatty acids and triglycerides Dr. C. Karakaya
		15:30 - 16:20	Fatty acids and triglycerides Dr. C. Karakaya
		16:30 - 17:20	Free Study Time
SATURDAY	11.11.2023	08:30 - 09:20	
SUNDAY	12.11.2023	08:30 - 09:20	

MONDAY	13.11.2023	08:30 - 09:20	Introduction to biostatistics, measures of central tendency and dispersion Dr.H. Tüzün
		09:30 - 10:20	Distributions Dr. C. Özbaş
		10:30 - 11:20	Fundamental Concepts of Genetics Dr. E. Konaç
		11:30 - 12:20	Fundamental Concepts of Genetics Dr. E. Konaç
		13:30 - 14:20	ENGLISH
		14:30 - 15:20	
		15:30 - 16:20	ELECTIVE COURSES
		16:30 - 17:20	
TUESDAY	14.11.2023	08:30 - 09:20	Görsel Sanatlar ve Eleştirel Düşünme Dr. M. Yalınay
		09:30 - 10:20	Fundamental Concepts of Genetics Dr. E. Konaç
		10:30 - 11:20	Fundamental Concepts of Genetics Dr. E. Konaç
		11:30 - 12:20	Introduction to significance test Dr. F.N. Aksakal
		13:30 - 14:20	Medical Ethics Dr. N. Çençen
		14:30 - 15:20	Medical Ethics Dr. N. Çençen
		15:30 - 16:20	Free Study Time
		16:30 - 17:20	Free Study Time
		18:00 - 18:50	Ataturk's Principles and History of His Revolutions
WEDNESDAY	15.11.2023	08:30 - 09:20	Parametric tests Dr. F.N. Aksakal
		09:30 - 10:20	Parametric tests Dr. F.N. Aksakal
		10:30 - 11:20	Mendelian - Non-Mendelian Inheritance Dr. A.S. Yar Sağlam
		11:30 - 12:20	Mendelian - Non-Mendelian Inheritance Dr. A.S. Yar Sağlam
		13:30 - 14:20	Mendelian - Non-Mendelian Inheritance Dr. A.S. Yar Sağlam

		14:30 - 15:20	Free Study Time
		15:30 - 16:20	Free Study Time
		16:30 - 17:20	Turkish Language
THURSDAY	16.11.2023	08:30 - 09:20	General structure of chromosomes and classification of human chromosomes Dr. A.S. Yar Sağlam
		09:30 - 10:20	General structure of chromosomes and classification of human chromosomes Dr. A.S. Yar Sağlam
		10:30 - 11:20	Medical Ethics Dr. N. Çençen
		11:30 - 12:20	Physician-Patient Relationships: Evolution, Ethical Principles and Other Basic Aspects Dr. N. Çençen
		13:30 - 14:20	Physician-Patient Relationships: Evolution, Ethical Principles and Other Basic Aspects Dr. N. Çençen
		14:30 - 15:20	Population Genetics Dr. N. Varol
		15:30 - 16:20	Population Genetics Dr. N. Varol
		16:30 - 17:20	Free Study Time
FRIDAY	17.11.2023	08:30 - 09:20	Free Study Time
		09:30 - 10:20	Free Study Time
		10:30 - 11:20	Methods in History of Medicine and Medical Evolution Dr. N. Çençen
		11:30 - 12:20	Methods in History of Medicine and Medical Evolution Dr. N. Çençen
		13:30 - 14:20	CRITICAL THINKING Applied course-1
		14:30 - 15:20	
		15:30 - 16:20	Electromagnetic (EM) Pollution: Electromagnetic Spectrum , natural and man made sources of EM Pollution Dr. A. Tomruk
		16:30 - 17:20	
SATURDAY	18.11.2023	08:30 - 09:20	
SUNDAY	19.11.2023	08:30 - 09:20	

MONDAY	20.11.2023	08:30 - 09:20	Medical Biology LAB. Cell Culture of Peripheral Blood, Chromosome Staining and Banding Techniques Group A Medical Biochemistry LAB. Analysis of reducing properties of carbohydrates Group B
		09:30 - 10:20	
		10:30 - 11:20	
		11:30 - 12:20	
		13:30 - 14:20	ENGLISH
		14:30 - 15:20	
		15:30 - 16:20	ELECTIVE COURSES
		16:30 - 17:20	
TUESDAY	21.11.2023	08:30 - 09:20	Phospholipids and glycolipids Dr. K. Ünal
		09:30 - 10:20	Cell differentiation and developmental molecular biology Dr. E. Konaç
		10:30 - 11:20	Steorids Dr. N. Bukan
		11:30 - 12:20	Steorids Dr. N. Bukan
		13:30 - 14:20	Non-parametric tests Dr .F.N. Aksakal
		14:30 - 15:20	
		15:30 - 16:20	Prehippocratic Medicine (Instinctive Medicine, Mystical Medicine, civilizations of Antiquity Dr. N. Çençen
		16:30 - 17:20	Panel: Molecular Epidemiology
		18:00 - 18:50	EXAM WEEK
WEDNESDAY	22.11.2023	08:30 - 09:20	Lipoproteins Dr. N. Bukan
		09:30 - 10:20	Lipoproteins Dr. N. Bukan
		10:30 - 11:20	TURKISH LANGUAGE EXAM
		11:30 - 12:20	
		13:30 - 14:20	Ataturk's Principles and History of His Revolutions EXAM
		14:30 - 15:20	
		15:30 - 16:20	Free Study Time
		16:30 - 17:20	EXAM WEEK

THURSDAY	23.11.2023	08:30 - 09:20	ENGLISH EXAMS
		09:30 - 10:20	
		10:30 - 11:20	
		11:30 - 12:20	
		13:30 - 14:20	
		14:30 - 15:20	
		15:30 - 16:20	Cell differentiation and developmental molecular biology Dr. E. Konaç
		16:30 - 17:20	Cell differentiation and developmental molecular biology Dr. E. Konaç
FRIDAY	24.11.2023	08:30 - 09:20	Vitamins and cofactors: water soluble Dr. C. Karakaya
		09:30 - 10:20	Vitamins and cofactors: water soluble Dr. C. Karakaya
		10:30 - 11:20	Biological Effects of extremely low frequency (ELF) E and B Fields: Epidemiologic and experimental studies Dr. A. Tomruk
		11:30 - 12:20	
		13:30 - 14:20	CRITICAL THINKING Applied course-2
		14:30 - 15:20	
		15:30 - 16:20	Hippocratic Medicine Dr. N. Çençen
		16:30 - 17:20	Free Study Time
SATURDAY	25.11.2023	08:30 - 09:20	
SUNDAY	26.11.2023	08:30 - 09:20	
MONDAY	27.11.2023	08:30 - 09:20	Classification of cell death Dr. H.İ. Önen
		09:30 - 10:20	Classification of cell death Dr. H.İ. Önen
		10:30 - 11:20	Medieval Medicine Dr. N. Çençen
		11:30 - 12:20	Islamic Medicine Dr. N. Çençen

		13:30 - 14:20	ENGLISH
		14:30 - 15:20	
		15:30 - 16:20	ELECTIVE COURSES
		16:30 - 17:20	
TUESDAY	28.11.2023	08:30 - 09:20	Practice 1: Planning a research, data collection and entry
		09:30 - 10:20	
		10:30 - 11:20	
		11:30 - 12:20	
		13:30 - 14:20	Vitamins and cofactors: water soluble Dr. C. Karakaya
		14:30 - 15:20	Vitamins and cofactors: lipid soluble Dr. C. Karakaya
		15:30 - 16:20	Free Study Time
		16:30 - 17:20	Free Study Time
		18:00 - 18:50	Ataturk's Principles and History of His Revolutions
		WEDNESDAY	29.11.2023
09:30 - 10:20			
10:30 - 11:20	Medical Biochemistry LAB. Chromatographic determination of amino acids in urine Group B		
11:30 - 12:20			
13:30 - 14:20	Biological Effects of RF/MW Radiation, , international EM field standards for EM radiation protection: General public and occupational exposure standards, Practical Measures for EM Radiation Protection Dr. A. Tomruk		
14:30 - 15:20			
15:30 - 16:20	Free Study Time		
16:30 - 17:20	Turkish Language		
THURSDAY	30.11.2023	08:30 - 09:20	Free Study Time
		09:30 - 10:20	Biological Effects of RF/MW Radiation, , international EM field standards for EM radiation protection: General public

			and occupational exposure standards, Practical Measures for EM Radiation Protection Dr. A. Tomruk
		10:30 - 11:20	Epigenetic mechanisms Dr. E. Konaç
		11:30 - 12:20	Epigenetic mechanisms Dr. E. Konaç
		13:30 - 14:20	Vitamins and cofactors: lipid soluble Dr. C. Karakaya
		14:30 - 15:20	Vitamins and cofactors: lipid soluble Dr. C. Karakaya
		15:30 - 16:20	Eleştirel ve Yaratıcı Düşünme Süreçleri Pratiği Dr. H. Bolay Belen
		16:30 - 17:20	Free Study Time
FRIDAY	1.12.2023	08:30 - 09:20	Free Study Time
		09:30 - 10:20	Free Study Time
		10:30 - 11:20	Molecular biology of cancer Dr. E. Konaç
		11:30 - 12:20	Molecular biology of cancer Dr. E. Konaç
		13:30 - 14:20	CRITICAL THINKING Applied course-3
		14:30 - 15:20	
		15:30 - 16:20	Free Study Time
		16:30 - 17:20	Free Study Time
SATURDAY	2.12.2023	08:30 - 09:20	
SUNDAY	3.12.2023	08:30 - 09:20	
MONDAY	4.12.2023	08:30 - 09:20	Free Study Time
		09:30 - 10:20	Contemporary Scientific medicine and Features of the 20th Century Medicine Dr. N. Çençen
		10:30 - 11:20	Ph and butter systems Dr. C. Karakaya
		11:30 - 12:20	Ph and butter systems Dr. C. Karakaya
		13:30 - 14:20	ENGLISH

		14:30 - 15:20	
		15:30 - 16:20	ELECTIVE COURSES
		16:30 - 17:20	
TUESDAY	5.12.2023	08:30 - 09:20	Medical Biology LAB. Karyotype; Pedigree method Group B Medical Biochemistry LAB. pHmeter Group A
		09:30 - 10:20	
		10:30 - 11:20	Medical Biology LAB. Karyotype; Pedigree method Group A Medical Biochemistry LAB. pHmeter Group B
		11:30 - 12:20	
		13:30 - 14:20	Intracellular and extracellular fluids and their compositions Dr. C. Karakaya
		14:30 - 15:20	Molecular biology of cancer Dr. E. Konaç
		15:30 - 16:20	Stem Cell Biology Dr. E. Konaç
		16:30 - 17:20	Free Study Time
		18:00 - 18:50	Ataturk's Principles and History of His Revolutions
WEDNESDAY	6.12.2023	08:30 - 09:20	Practice 2: Data analysis, reporting and presenting data
		09:30 - 10:20	
		10:30 - 11:20	
		11:30 - 12:20	
		13:30 - 14:20	Mobile Genetic elements Dr. H.İ. Önen
		14:30 - 15:20	Organization of the human genome Dr. H.İ. Önen
		15:30 - 16:20	Free Study Time
		16:30 - 17:20	Turkish Language
THURSDAY	7.12.2023	08:30 - 09:20	Free Study Time
		09:30 - 10:20	Free Study Time
		10:30 - 11:20	Membrane and transport Dr. C. Karakaya
		11:30 - 12:20	Membrane and transport Dr. C. Karakaya

		13:30 - 14:20	Personal genome Project and What is personalized medicine? Dr. H.İ. Önen
		14:30 - 15:20	Personal genome Project and What is personalized medicine? Dr. H.İ. Önen
		15:30 - 16:20	History of Turkish Medicine (Before the Republic Period) Dr. N. Çençen
		16:30 - 17:20	Free Study Time
FRIDAY	8.12.2023	08:30 - 09:20	Free Study Time
		09:30 - 10:20	History of Turkish Medicine (Republic Period) Dr. N. Çençen
		10:30 - 11:20	Recombinant DNA technology and gene therapy Dr. H.İ. Önen
		11:30 - 12:20	Recombinant DNA technology and gene therapy Dr. H.İ. Önen
		13:30 - 14:20	CRITICAL THINKING Applied course-4
		14:30 - 15:20	
		15:30 - 16:20	Free Study Time
		16:30 - 17:20	Free Study Time
SATURDAY	9.12.2023	08:30 - 09:20	
SUNDAY	10.12.2023	08:30 - 09:20	
MONDAY	11.12.2023	08:30 - 09:20	Free Study Time
		09:30 - 10:20	Free Study Time
		10:30 - 11:20	Free Study Time
		11:30 - 12:20	Free Study Time
		13:30 - 14:20	ENGLISH
		14:30 - 15:20	
		15:30 - 16:20	ELECTIVE COURSES
		16:30 - 17:20	

TUESDAY	12.12.2023	08:30 - 09:20	Free Study Time
		09:30 - 10:20	Free Study Time
		10:30 - 11:20	Free Study Time
		11:30 - 12:20	Free Study Time
		13:30 - 14:20	Free Study Time
		14:30 - 15:20	Free Study Time
		15:30 - 16:20	Free Study Time
		16:30 - 17:20	Free Study Time
		18:00 - 18:50	Ataturk's Principles and History of His Revolutions
WEDNESDAY	13.12.2023	08:30 - 09:20	FROM MOLECULE TO CELL COMMITTEE THEORETICAL EXAM
		09:30 - 10:20	
		10:30 - 11:20	
		11:30 - 12:20	
		13:30 - 14:20	Free Study Time
		14:30 - 15:20	Free Study Time
		15:30 - 16:20	Free Study Time
		16:30 - 17:20	Turkish Language