

GAZI UNIVERSITY FACULTY OF MEDICINE
2020-2021 ACADEMIC YEAR
1st YEAR -FROM MOLECULE TO CELL COMMITTEE

(NOVEMBER 5-NOVEMBER 23, 2020)

COURSES	THEORETICAL
MEDICAL BIOLOGY	30
MEDICAL BIOCHEMISTRY	23
MEDICAL HISTORY AND ETHICS	18
BIOSTATISTICS	12
BIOPHYSICS	7
MEDICAL GENETICS	1
TOTAL	91

Dean	Prof. Dr. Mustafa Necmi İLHAN
Vice Dean	Assoc. Prof. Dr. İlyas OKUR
Vice Dean	Assoc. Prof. Dr. Özlem GÜZEL TUNÇCAN
Head Coordinator	Prof. Dr. Çiğdem ÖZER
Assistant Head Coordinator	Prof. Dr. Mehmet Ali ERGÜN
Assistant Head Coordinator	Prof. Dr. Akif Muhtar ÖZTÜRK
Assistant Head Coordinator	Assoc. Prof. Dr. Özlem COŞKUN
Phase I Coordinator	Assoc. Prof. Dr. Esra TUĞ
Assistant Phase I Coordinator	Assoc. Prof. Dr. Atiye Seda YAR SAĞLAM
Assistant Phase I Coordinator	Assoc. Prof. Dr. Zafer Kutay COŞKUN
Assistant Phase I Coordinator	Asst. Prof. Dr. Ayşe Meltem SEVGİLİ
Assistant Phase I Coordinator	Asst. Prof. Dr. Duygu DAYANIR

MEMBERS OF COMMITTEE

MEDICAL BIOLOGY	MEDICAL BIOCHEMISTRY	MEDICAL HISTORY AND ETHICS	BIOSTATISTICS	BIOPHYSICS
Dr. Ece KONAÇ	Dr. Mustafa KAVUTÇU	Dr. Nesrin ÇOBANOĞLU	Dr. F. Nur AKSAKAL	Dr. Arın TOMRUK
Dr. H. İlke ÖNEN	Dr. Neslihan BUKAN		Dr. Hakan TÜZÜN	
Dr. Atiye Seda YAR SAĞLAM	Dr. Aylin SEPİCİ DİNÇEL			MEDICAL GENETICS
Dr. Nuray VAROL	Dr. Cengiz KARAKAYA			Dr. Mehmet Ali ERGÜN
	Dr. Kübranur ÜNAL			

Learning Objectives and Goals& Achievements

NR of LEARNING OBJECTIVE	<u>From Molecules to Cell</u>
	INFORMATION
ÖH-100-2-1	To be able to classify and explain the structural and biochemical properties of carbohydrates, lipids and vitamins, evaluate their functional properties and clinical importance
ÖH-100-2-2	To be able to define PH concept and buffer systems in the body
ÖH-100-2-3	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
ÖH-100-2-4	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.
ÖH-100-2-5	To be able to explain the molecular effects and properties of genes involved in early embryo development
ÖH-100-2-6	Explain the causes of DNA mutation and the properties of molecules involved in DNA repair mechanisms
ÖH-100-2-7	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
ÖH-100-2-8	To be able to explain the application areas of recombinant DNA technology and biotechnology in medicine
ÖH-100-2-9	Explaining the definition of epidemiology and its usage areas, counting the types and types of research planning, explaining biostatistics concepts
ÖH-100-2-10	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
ÖH-100-2-11	To be able to say electromagnetic (EM) field concept and its sources
ÖH-100-2-12	To be able to explain the permeability of tissues to electric and magnetic fields
ÖH-100-2-13	To be able to explain the biological effects of low frequency (ELF) E and B areas with examples
ÖH-100-2-14	To be able to list the main sources and biological effects of radio wave (RF) / microwave (MW) radiation
ÖH-100-2-15	To explain mobile phone frequencies and SAR concept, To evaluate the effect of mobile phone on medical devices
ÖH-100-2-16	Evaluate national and international standards for protection against EM radiation and apply practical suggestions to protect it in daily life
ÖH-100-2-17	To be able to define the difference between general public exposure and occupational exposure standards
ÖH-100-2-18	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
	<u>SKILLS</u>
ÖH-100-2-19	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
ÖH-100-2-20	DNA isolation and conduction of DNA in agarose gel
ÖH-100-2-21	To be able to perform quantitative test result with spectrophotometer

4th week	02.11.2020 MONDAY	03.11.2020 TUESDAY	04.11.2020 WEDNESDAY	05.11.2020 THURSDAY	06.11.2020 FRIDAY
10:00-10:30 10:30-11:00			YEAR I COMMITTEE 1st THEORETICAL EXAM	RNA Synthesis and RNA processing Dr. H.I. Onen	Genetic Code and Protein Synthesis Dr. E. Konaç
				RNA Synthesis and RNA processing Dr. H.I. Onen	Genetic Code and Protein Synthesis Dr. E. Konaç
11:00-11:30 11:30-12:00				Epidemiology and its application topics Dr. H. Tüzün	Physician-Patient Relationships: Evolution, Ethical Principles and Other Basic Aspects Dr. N. Çobanoğlu
				Planning an epidemiological research Dr. H. Tüzün	Methods in History of Medicine and Medical Evolution Dr. N. Çobanoğlu
14:00-14:30 14:30-15:00				Study population, sample and sampling methods Dr. H. Tüzün	Electromagnetic (EM) Pollution: Electromagnetic Spectrum , natural and man made sources of EM Pollution Dr. A. Tomruk
				Physician's identity, Deontology and concepts of medical ethics Dr. N. Çobanoğlu	Electromagnetic (EM) Pollution: Electromagnetic Spectrum , natural and man made sources of EM Pollution Dr. A. Tomruk
15:00-15:30 15:30-16:00				Physician's identity, Deontology and concepts of medical ethics Dr. N. Çobanoğlu	Glycoproteins and derivatives Dr. K. Ünal
				Physician-Patient Relationships: Evolution, Ethical Principles and Other Basic Aspects Dr. N. Çobanoğlu	Glycoproteins and derivatives Dr. K. Ünal

5th week	09.11.2020 MONDAY	10.11.2020 TUESDAY	11.11.2020 WEDNESDAY	12.11.2020 THURSDAY	13.11.2020 FRIDAY
10:00-10:30 10:30-11:00	Fatty acids and triglycerides Dr. C. Karakaya	Control Mechanisms of gene Expression Dr. A.S. Yar Sağlam	Introduction to biostatistics, measures of central tendency and dispersion Dr. H. Tüzün	Cell differentiation and developmental molecular biology Dr. E. Konaç	Cell differentiation and developmental molecular biology Dr. E. Konaç
	Fatty acids and triglycerides Dr. C. Karakaya	Control Mechanisms of gene Expression Dr. A.S. Yar Sağlam	Distributions Dr. H. Tüzün	Cell differentiation and developmental molecular biology Dr. E. Konaç	Mutations and mutagens Dr. A.S. Yar Sağlam
11:00-11:30 11:30-12:00	Phospholipids and glycolipids Dr. K. Ünal	Control Mechanisms of gene Expression Dr. A.S. Yar Sağlam	Polysaccharides and other carbohydrates Dr. M. Kavutçu	Steroids Dr. N. Bukan	Mutations and mutagens Dr. A.S. Yar Sağlam
	Data collection, Questionnaire preparing Dr. H. Tüzün	Prehippocratic Medicine (Instinctive Medicine, Mystical Medicine, civilizations of Antiquity Dr. N. Çobanoğlu	Vitamins and cofactors:water soluble Dr. C. Karakaya	Steroids Dr. N. Bukan	Mutations and mutagens Dr. A.S. Yar Sağlam
14:00-14:30 14:30-15:00	Presentation of data, preparation of tables and graphics Dr. H. Tüzün	Hippocratic Medicine Dr. N. Çobanoğlu	Parametric tests Dr.F. N.Aksakal	Lipoproteins Dr. N. Bukan	Contemporary Scientific medicine and Features of the 20th Century Medicine Dr. N. Çobanoğlu
	Methods in History of Medicine and Medical Evolution Dr. N. Çobanoğlu	Classification of carbohydrate and monosaccharides Dr.M. Kavutçu	Parametric tests Dr.F.N.Aksakal	Lipoproteins Dr. N. Bukan	History of Turkish Medicine (Before the Republic Period) Dr. N. Çobanoğlu
15:00-15:30 15:30-16:00	Epigenetic Mechanisms Dr. N. Varol	Disaccharides Dr.M. Kavutçu	Medieval Medicine Dr. N. Çobanoğlu	Biological Effects of extremely low frequency (ELF) E and B Fields: Epidemiologic and experimental studies Dr. A. Tomruk	Vitamins and cofactors:water soluble Dr. C. Karakaya
	Epigenetic Mechanisms Dr. N. Varol	Introduction to significance tests Dr. F.N.Aksakal	Islamic Medicine Dr. N. Çobanoğlu	Biological Effects of extremely low frequency (ELF) E and B Fields: Epidemiologic and experimental studies Dr. A. Tomruk	Vitamins and cofactors:water soluble Dr. C. Karakaya

6th week	16.11.2020 MONDAY	17.11.2020 TUESDAY	18.11.2020 WEDNESDAY	19.11.2020 THURSDAY	20.11.2020 FRIDAY
10:00-10:30 10:30-11:00	History of Turkish Medicine (Republic Period) Dr. N. Çobanoğlu	DNA Repair Mechanisms Dr. E. Konaç	Molecular biology of cancer Dr. E. Konaç	Intracellular and extracellular fluids and their compositions Dr. C. Karakaya	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 Dr. A. Tomruk
	Medical Ethics Dr. N. Çobanoğlu	DNA Repair Mechanisms Dr. E. Konaç	Molecular biology of cancer Dr. E. Konaç	Membrane and transport Dr.A. S Dinçel	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
11:00-11:30 11:30-12:00	Classification of cell death Dr. H. İ. Önen	Vitamins and cofactors: lipid soluble Dr. C. Karakaya	Molecular biology of cancer Dr. E. Konaç	Membrane and transport Dr.A. S Dinçel	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
	Classification of cell death Dr. H. İ. Önen	Vitamins and cofactors: lipid soluble Dr. C. Karakaya	Familial cancer syndromes Dr. M. A. Ergün	Personal genome Project and What is personalized medicine? Dr. N. Varol	Molecular biological methods in diagnosis Dr. H. İ. Önen
14:00-14:30 14:30-15:00	Nonparametric tests Dr.F.N.Aksakal	Vitamins and cofactors: lipid soluble Dr. C. Karakaya	Mobile Genetic elements Dr. H. İ. Önen	Personal genome Project and What is personalized medicine? Dr. N. Varol	Molecular biological methods in diagnosis Dr. H. İ. Önen
	Nonparametric tests Dr.F.N.Aksakal	History of Turkish Medicine (Republic Period) Dr. N. Çobanoğlu	Organization of the human genome Dr. H. İ. Önen	Recombinant DNA technology and gene therapy Dr. H. İ. Önen	Medical Ethics Dr. N. Çobanoğlu
15:00-15:30 15:30-16:00		Medical Ethics Dr. N. Çobanoğlu	PH and buffer systems Dr. C. Karakaya	Recombinant DNA technology and gene therapy Dr. H. İ. Önen	Medical Ethics Dr. N. Çobanoğlu
		Medical Ethics Dr. N. Çobanoğlu	PH and buffer systems Dr. C. Karakaya		Medical Ethics Dr. N. Çobanoğlu

7th week	23.11.2020 MONDAY	24.11.2020 TUESDAY	25.11.2020 WEDNESDAY	26.11.2020 THURSDAY	27.11.2020 FRIDAY
10:00- 10:30 10:30- 11:00	PHASE I COMMITTEE 2nd THEORETICAL EXAM				
11:00- 11:30 11:30- 12:00					
14:00- 14:30 14:30- 15:00					
15:00- 15:30 15:30- 16:00					