

GAZI UNIVERSITY FACULTY OF MEDICINE
2020-2021 ACADEMIC YEAR
Ist YEAR -INTRODUCTION TO MEDICINE COMMITTEE
(OCTOBER 12- NOVEMBER 04, 2020)

COURSES	THEORETICAL
Medical Biology	43
Medical Biochemistry	31
Biophysics	17
Public Health	9
Medical Genetics	7
Medical History and Ethics	2
TOTAL	109
INTRODUCTION TO MEDICINE APPLICATIONS	
EVIDENCE BASED MEDICINE (EBM)	2
COMMUNICATION SKILLS	6
TOTAL	117

Dean	Prof. Dr. Mustafa Necmi İLHAN
Vice Dean	Assoc. Prof. Dr. Özlem GÜZEL TUNÇCAN
Vice Dean	Assoc. Prof. Dr. İlyas OKUR
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. Meltem SEVGİLİ
Assistant Phase I Coordinator	Asst. Prof. Dr. Duygu DAYANIR

INTRODUCTION TO MEDICINE

Aim:

At the end of the Introduction to Medicine committee; students will be able to explain organic chemistry, differences in cellular organization of living organisms, molecular evolution, biological membranes, cell organelles, structure and function of biomolecules in metabolic pathways, basic genetic concepts, heredity types, application of controlled electric current in living organisms, importance of basic public health application fields and understand the methodology of medicine.

LEARNING OBJECTIVES:

Knowledge:

1. To be able to define atom and its structure, chemical bonds
2. To be able to classify the structural properties of organic compounds
3. To be able to define the concepts of bond and energy in living organisms
4. To be able to explain the structure and function of the main molecules such as protein, lipid and carbohydrate
5. To be able to explain the hypothesis of evolution of cells, genes and genomes
6. To be able to explain basic genetic concepts and types of inheritance
7. To be able to define the molecular structures that play a role in the structure and function of eukaryotic cells, the relationship between these structures and controls
8. To be able to explain the molecular mechanisms and controls in the process of mitosis and meiosis
9. To be able to define the concepts of electric charge, force, energy, magnetic field and their use in biological systems
10. To be able to explain the methods of medicine
11. To be able to explain the concept of health and illness and public health perspective to health problems
12. To be able to list the characteristics of primary, secondary and tertiary health services
13. Explain the role of environmental factors in health-related events
14. To be able to explain the concept of basic health services
15. To explain the concept of health prevention and promotion

Skills :

1. To be able to show parts and use of light microscope and the living cells
2. To be able to monitor peripheral cell culture and chromosome staining and banding
3. To be able to make karyotype analysis by classifying human chromosomes

Attitude:

1. To be able to behave according to the values of medical profession culture and the atmosphere of the medical faculty
2. To understand the importance of keeping a healthy record
3. To understand the importance of evidence-based medical knowledge in the medical profession
4. To understand the importance of the use of basic communication skills

MEMBERS OF COMMITTEE

MEDICAL BIOLOGY	MEDICAL BIOCHEMISTRY	PUBLIC HEALTH
Dr. Ece KONAÇ	Dr. Mustafa KAVUTÇU	Dr. Mustafa N. İLHAN
Dr. H. İlke ÖNEN	Dr. Orhan CANBOLAT	Dr. F. Nur AKSAKAL
Dr. Atiye Seda YAR SAĞLAM	Dr. Cengiz KARAKAYA	Dr. Asiye UĞRAŞ DİKMEN
Dr. Nuray VAROL	Dr. Kübranur ÜNAL	Dr. Hakan TÜZÜN
MEDICAL GENETICS	MEDICAL HISTORY AND ETHICS	BIOPHYSICS
Dr. Meral YİRMİBEŞ KARAOĞUZ	Dr. Nesrin ÇOBANOĞLU	Dr. M. Arda EŞMEKAYA
Dr. Mehmet Ali ERGÜN		Dr. Elçin ÖZGÜR BÜYÜKATALAY

COMMUNICATION SKILLS COORDINATOR	Prof. Dr. Bülent BOYACI
EVIDENCE BASED MEDICINE COORDINATOR	Prof. Dr. Mehmet Ali ERGÜN

1st Week	12.10.2020 MONDAY	13.10.2020 TUESDAY	14.10.2020 WEDNESDAY	15.10.2020 THURSDAY	16.10.2020 FRIDAY
10:00-10:30 10:30-11:00	OPENING THE TERM SEMESTER I COORDINATOR MEETING	What is Medicine and Medical Research Methodology? Dr.N. Çobanoğlu	Electric Charge, Electric Force, Electric Field (E),Electric Potential And Potential Energy, Capacity- Dr. B. Sırav Aral	Hypothesis of the Formation of Viability (Evolution)- Dr. N. Varol	Introduction to Biochemistry : Medical organic chemistry- Dr. M. Kavutçu
		What is Medicine and Medical Research Methodology? Dr..N. Çobanoğlu	Electric Charge, Electric Force, Electric Field (E),Electric Potential And Potential Energy, Capacity- Dr. B. Sırav Aral	Molecular Evidence for Evolution - Dr. N. Varol	Introduction to Biochemistry : Medical organic chemistry- Dr. M. Kavutçu
Interdisciplinary Sciences and Biophysics- Dr. M. A. Eşmekaya		Electric Charge, Electric Force, Electric Field (E),Electric Potential And Potential Energy, Capacity- Dr. B. Sırav Aral	Scientific Method, Scientific Research and Molecular Biological Sciences- Dr. N. Varol	The Emergence of the First Cell- Dr. N. Varol	
11:00-11:30 11:30-12:00	Health Services- Dr. H. Tüzün	Interdisciplinary Sciences and Biophysics- Dr. M. A. Eşmekaya		Koordinatörlük Doç. Dr. Esra Tuğ Dönem hakkında bilgilendirme	Endosymbiosis and Eukaryotic Cell Development- Dr. N. Varol
	Public Health vision and Health-Disease Concept- Dr. M. N. İlhan	Introduction to Biochemistry : Medical organic chemistry- Dr.C.Karakaya	The functions of nucleotides and nucleic acids: DNA and RNA- Dr. E. Konaç	Enviromental Disease Concept and Types of Enviromental Exposure- Dr.F.N. Aksakal	The Structure and Function of Mitochondria- Dr. H.İ. Önen
14:00-14:30 14:30-15:00	Introduction to Biochemistry : Medical organic chemistry- Dr.O. Canbolat	Introduction to Biochemistry : Medical organic chemistry- Dr.C.Karakaya	The functions of nucleotides and nucleic acids: DNA and RNA- Dr. E. Konaç	Health Indicators and Health Level in Turkey- Dr. H. Tüzün	The Structure and Function of Mitochondria- Dr. H.İ. Önen
	Introduction to Biochemistry : Medical organic chemistry- Dr.O. Canbolat	Introduction to Biochemistry : Medical organic chemistry- Dr.C.Karakaya	Introduction to Biochemistry : Medical organic chemistry- Dr.O. Canbolat	Electric Charge, Electric Force, Electric Field (E),Electric Potential And Potential Energy, Capacity Dr. B. Sırav Aral	The Evolution of Genes and Genomes- Dr. N. Varol
15:00-15:30 15:30-16:00	Introduction to Biochemistry : Medical organic chemistry- Dr.C.Karakaya	Primary Health Care Vision- Dr. H. Tüzün	Introduction to Biochemistry : Medical organic chemistry- Dr.O. Canbolat	E current, DC&AC Properties Dr. B. Sırav Aral	Formation of Homologues of Genes and Gene Families- Dr. N. Varol

2nd Week	19.10.2020 MONDAY	20.10.2020 TUESDAY	21.10.2020 WEDNESDAY	22.10.2020 THURSDAY	23.10.2020 FRIDAY
10:00-10:30	The Importance of Evolution in Medicine- Dr. N. Varol	Nucleus and Packing of Chromatin- Dr. H.İ. Önen	Introduction to Biochemistry : Medical organic chemistry- Dr.C.Karakaya	Bioenergetics- Dr. M. Kavutçu	Introduction to Biochemistry : Medical organic chemistry- Dr. K. Ünal
10:30-11:00	Biomolecules- Dr. N. Varol	Nucleus and Packing of Chromatin- Dr. H.İ. Önen	Introduction to Biochemistry : Medical organic chemistry- Dr.C.Karakaya	Bioenergetics- Dr. M. Kavutçu	Introduction to Biochemistry : Medical organic chemistry- Dr. K. Ünal
11:00-11:30	Biomolecules- Dr. N. Varol	Functional Portions and Protein Traffic in Cells- Dr. A. S. Yar Sağlam	Functional Portions and Protein Traffic in Cells- Dr. A. S. Yar Sağlam	Magnetic Field- Dr. B. Sırav Aral	Amino acid Structure, Classification Reaction and Transports- Dr. M. Kavutçu
11:30-12:00	Health Prevention and Promotion- Dr. H. Tüzün	Functional Portions and Protein Traffic in Cells- Dr. A. S. Yar Sağlam	Cellular Tubulin and Filaments Systems- Dr. A. S. Yar Sağlam	Electrophoresis- Dr. E. Özgür Büyükatalay	Amino acid Structure, Classification Reaction and Transports- Dr. M. Kavutçu
14:00-14:30	Introduction to Biochemistry : Medical organic chemistry- Dr.C.Karakaya	Introduction to Biochemistry : Medical organic chemistry- Dr.C.Karakaya	Controlled Electric Current Applications in Biological Systems- Dr. B. Sırav Aral	DNA Role in Heredity: What Is the Evidence that the Gene Is DNA? Dr. N. Varol	DNA Replication (prokaryotic and eukaryotic)- Dr. H.İ. Önen
14:30-15:00	Introduction to Biochemistry : Medical organic chemistry- Dr.C.Karakaya	Introduction to Biochemistry : Medical organic chemistry- Dr.C.Karakaya	Controlled Electric Current Applications in Biological Systems- Dr. B. Sırav Aral	DNA Structure and Functional Features- Dr. N. Varol	DNA Replication (prokaryotic and eukaryotic)- Dr. H.İ. Önen
15:00-15:30	The Structure and Function of Biological Membranes- Dr. H.İ. Önen	Introduction to Biochemistry : Medical organic chemistry- Dr.C.Karakaya	Work and Health Concept- Dr. H. Tüzün	Biochemistry of Nucleic Acids- Dr. O. Canbolat	Classification of Enzymes-Dr. K. Ünal
15:30-16:00	The Structure and Function of Biological Membranes- Dr. H.İ. Önen		Health System in Turkey- Dr. H. Tüzün	Biochemistry of Nucleic Acids- Dr. O. Canbolat	Classification of Enzymes-Dr. K. Ünal

3rd Week	26.10.2020 MONDAY	27.10.2020 TUESDAY	28.10.2020 WEDNESDAY	29.10.2020 THURSDAY	30.10.2020 FRIDAY
10:00-10:30	Peptides and Proteins- Dr. M. Kavutçu	Depolarization of Heart Muscle Cells, Electrical Axis and Dipole Moment Vector of the Heart, Einthoven Triangle and Determination of the Potential Difference in Heart's Dipole Area- Dr. E. Ö. Büyükatalay	Human diseases and inheritance pattern- Dr.M.Yirmibeş Karaoğuz	29 Ekim Cumhuriyet Bayramı	
10:30-11:00	Peptides and Proteins- Dr. M. Kavutçu	Depolarization of Heart Muscle Cells, Electrical Axis and Dipole Moment Vector of the Heart, Einthoven Triangle and Determination of the Potential Difference in Heart's Dipole Area- Dr. E. Ö. Büyükatalay	Human diseases and inheritance pattern- Dr.M.Yirmibeş Karaoğuz		
11:00-11:30	Enzyme Kinetics- Dr. K. Ünal	EVIDENCE BASED MEDICINE (EBM)	Fundamental Concepts of Genetics- Dr. E. Konaç		General structure of chromosomes and classification of human chromosomes- Dr. H.İ. Önen
11:30-12:00	Enzyme Kinetics- Dr. K. Ünal	EVIDENCE BASED MEDICINE (EBM)	Fundamental Concepts of Genetics- Dr. E. Konaç		General structure of chromosomes and classification of human chromosomes- Dr. H.İ. Önen
14:00-14:30	Control of Cell Cycle- Dr. E. Konaç	Crossing over, Recombination and Linkage- Dr. N. Varol	Public Holiday		Molecular genetics of human diseases- Dr.M.A. Ergün
14:30-15:00	Molecular mechanisms underlying the mitosis-meiosis- Dr. E. Konaç	Difference between Spermatogenesis and Oogenesis- Dr. E. Konaç			Molecular genetics of human diseases- Dr.M.A. Ergün
15:00-15:30	Molecular mechanisms underlying the mitosis-meiosis- Dr. E. Konaç	The Molecular Mechanisms of Fertilization- Dr. E. Konaç			Genotype- phenotype correlations- Dr.M.A. Ergün
15:30-16:00	Factors Affecting Enzyme Activity- Dr. K. Ünal	Mendelian - Non-Mendelian Inheritance- Dr. A. S. Yar Sağlam			Regulation of Enzyme Activity- Dr. K. Ünal

4th Week	02.11.2020 MONDAY	03.11.2020 TUESDAY	04.11.2020 WEDNESDAY
10:00-10:30	Chromosomes, aberrations and diseases- Dr.M.Yirmibeş Karaoğuz	Population Genetics- Dr. N. Varol	COMMITTEE 1 THEORETICAL EXAM
10:30-11:00	Chromosomes, aberrations and diseases- Dr.M.Yirmibeş Karaoğuz	Population Genetics- Dr. N. Varol	
11:00-11:30	Depolarization of Heart Muscle Cells, Electrical Axis and Dipole Moment Vector of the Heart, Einthoven Triangle and Determination of the Potential Difference in Heart's Dipole Area- Dr. E. Ö. Büyükatalay	Active and Passive Transducers, Usage of Transducers in Medicine- Dr. E. Ö. Büyükatalay	
11:30-12:00	Depolarization of Heart Muscle Cells, Electrical Axis and Dipole Moment Vector of the Heart, Einthoven Triangle and Determination of the Potential Difference in Heart's Dipole Area- Dr. E. Ö. Büyükatalay	Laser in Medicine- Dr. E. Ö. Büyükatalay	
14:00-14:30	Fundamental Concepts of Genetics- Dr. E. Konaç	Regulation of Enzyme Activity- Dr. K. Ünal	
14:30-15:00	Fundamental Concepts of Genetics- Dr. E. Konaç	Regulation of Enzyme Activity- Dr. K. Ünal	
15:00-15:30	Mendelian - Non-Mendelian Inheritance- Dr. A. S. Yar Sağlam		
15:30-16:00	Mendelian - Non-Mendelian Inheritance- Dr. A. S. Yar Sağlam		