

**GAZİ UNIVERSITY MEDICAL FACULTY**  
**YEAR I**  
**CELL BIOLOGY COMMITTEE**  
**(24 November - 08 December 2020)**

<b>COURSES</b>	<b>THEORETICAL</b>
Medical Microbiology	38
Medical Biochemistry	10
Histology And Embryology	8
Emergency Medicine	7
Biophysics	6
Immunology	5
<b>TOTAL</b>	<b>68</b>
<b>INTRODUCTION TO CLINICAL PRACTICE</b>	
PROFESSIONALISM IN MEDICINE	4
HUMAN SCIENCES IN MEDICINE	2
<b>TOTAL</b>	<b>74</b>

**MEMBERS OF COMMITTEE**

<b>MEDICAL MICROBIOLOGY</b>	<b>MEDICAL BIOCHEMISTRY</b>	<b>HISTOLOGY AND EMBRYOLOGY</b>	<b>EMERGENCY MEDICINE</b>	<b>IMMUNOLOGY</b>	<b>BIOPHYSICS</b>
Dr. Meltem YALINAY	Dr. Aylin SEPİCİ DİNÇEL	Dr. Çiğdem ELMAS	Dr. Ahmet DEMİRCAN	Dr. Vedat BULUT	Dr. M. Arda EŞMEKAYA
Dr. Kayhan ÇAĞLAR	Dr. Cengiz KARAKAYA	Dr. Zeynep YIĞMAN	Dr. Ayfer KELEŞ	Dr. Resul KARAKUŞ	
Dr. Ayşe KALKANCI		Dr. Duygu DAYANIR	Dr. İsa KILIÇASLAN	Dr. E. Ümit BAĞRIAÇIK	
Dr. Funda DOĞRUMAN AL			Dr. Mehmet Akif KARAMERCAN		
			Dr. Mehmet Ali ASLANER		

## CELL BIOLOGY COMMITTEE

<b>NR of LEARNING OBJECTIVE</b>	<b>INFORMATION</b>
ÖH-100-3-01	To be able to evaluate the digestion and metabolism of nucleoproteins and to evaluate their relationship with diseases
ÖH-100-3-02	To be able to interpret the synthesis steps, defects and clinical findings
ÖH-100-3-03	To be able to comprehend the importance of inorganic compounds in the body
ÖH-100-3-04	To be able to define the structural properties and life cycles of microorganisms (viruses, bacteria, fungi, parasites)
ÖH-100-3-05	To explain the terms and methods of sterilization and disinfection
ÖH-100-3-06	To be able to define antimicrobial drugs and resistance mechanisms and be able to explain antibiotic susceptibility test methods
ÖH-100-3-07	To be able to define basic concepts of immunology and general defense pathways of host
ÖH-100-3-08	To be able to evaluate the basic elements of communication process
ÖH-100-3-09	To be able to explain basic life support and all kinds of first aid methods
ÖH-100-3-10	To define the forms of cell divisions
ÖH-100-3-11	To be able to define the processes of formation of necrosis and apoptosis, the histological changes in the cell and the process of destruction of residues
ÖH-100-3-12	To be able to counting the histological structure of cell membrane, organelles, nucleus and inclusions
ÖH-100-3-13	To be able to distinguish cell shapes and microorganisms at the beginning of microscope by using light microscope
ÖH-100-3-14	To be able to apply the staining methods used for the examination of microorganisms, sowing methods for production and antibiotic susceptibility tests
ÖH-100-3-15	To be able to apply uric acid, bilirubin, urobilinogen, inorganic phosphate measurement method
ÖH-100-3-16	To be able to know, understand and act on the situations that should be applied first aid, apply first aid in various situations
ÖH-100-3-17	To be able to evaluate and apply what they read with a critical and researching approach
ÖH-100-3-18	To be able to measuring blood pressure with pulse and respiratory rate, hand washing, wearing and removing sterile gloves, Elastic bandage wrapping, intramuscular injection skills
ÖH-100-3-19	To be aware of the importance of group work and cooperation
ÖH-100-3-20	Be aware of the importance of basic communication skills
ÖH-100-3-21	To be able to be aware of the importance of effective first aid in the approach to emergency patients

**CELL BIOLOGY COMMITTEE**

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	<b>Year I, 2<sup>nd</sup> Committee Theoretical Exam</b>	History and nomenclature of microbiology Dr. A. Kalkancı	Basic life support and relief of foreign bodies from airway Dr. M. A. Aslaner	Digestion of nucleic acids Dr. A. Sepici Dinçel	Synthesis and catabolism of porphyrins Dr. C. Karakaya
		Bacterial cell structure Dr. M. Yalınay	Patient transport, systems and splint application Dr. A. Keleş	De novo synthesis of purine nucleodites Dr. A. Sepici Dinçel	Synthesis and catabolism of porphyrins Dr. C. Karakaya
		Bacterial cell structure Dr. M. Yalınay	Growth and metabolism of bacteria Dr. K. Çağlar	Regulation of purine and pyrimidine synthesis Dr. A. Sepici Dinçel	Porphyria Dr. C. Karakaya
Morphology and staining of bacteria Dr. M. Yalınay		Bacterial genetics Dr. M. Yalınay	Purine catabolism Dr. A. Sepici Dinçel	Fungal evolution Dr. A. Kalkancı	
11:00-11:30 11:30-12:00		Bacteriophages Dr. M. Yalınay	Bacterial genetics Dr. M. Yalınay	Pyrimidine biosynthesis and catabolism Dr. A. Sepici Dinçel	Mycotoxins and their effects on humans Dr. A. Kalkancı
		Laboratory methods in antibiotic selection Dr. M. Yalınay	General properties and classification of fungi Dr. A. Kalkancı	Defense mechanisms of the host against bacteria Dr. K. Çağlar	Membranes And Electrical Properties of Cells, Electrical Equivalent Cell Models Dr. M.A. Eşmekaya
14:00-14:30 14:30-15:00	Cell structure, cytoplasm and components Dr. Ç. Elmas	Fungi-host relationship Dr. A. Kalkancı	Bacteria-host relationships Dr. K. Çağlar	Membranes And Electrical Properties of Cells, Electrical Equivalent Cell Models Dr. M.A. Eşmekaya	
	Cell structure, cytoplasm and components Dr. Ç. Elmas	Antigen- antibody reactions and serological tests Dr. E. Ü. Bağrıaçık	Bacteria-host relationships Dr. K. Çağlar	Heart and circulatory problems and nervous system problems Dr. M. A. Karamercan	

**CELL BIOLOGY COMMITTEE**

8th Week	30.11.2020 MONDAY	01.12.2020 TUESDAY	02.12.2020 WEDNESDAY	03.12.2020 THURSDAY	04.12.2020 FRIDAY
10:00-10:30 10:30-11:00	Mechanims of actions of antimicrobial drugs and resistance mechanisms Dr. M. Yalınay	Viral genetics Dr. A. Kalkancı	Introduction to molecular microbiology Dr. M. Yalınay	Definition and application of first aid Dr. A. Demircan	Sterilization and disinfection Dr. K. Çağlar
	Mechanims of actions of antimicrobial drugs and resistance mechanisms Dr. M. Yalınay	Viral oncogenesis Dr. K. Çağlar	General of protozoa Dr. F. Doğruman Al	Emergency first aid in different condition Dr. A. Demircan	Sterilization and disinfection Dr. K. Çağlar
11:00-11:30 11:30-12:00	Inorganic metabolism Dr. C. Karakaya	Reason of Biological Potential Difference: Asymmetry Dr. M.A. Eşmekaya	Virulence factors and toxins of fungi Dr. A. Kalkancı	Epidemiology and control of parasitic infections Dr. K. Çağlar	First aid in bleeding and wounds Dr. İ. Kılıçaslan
	Inorganic metabolism Dr. C. Karakaya	Reason of Biological Potential Difference: Asymmetry Dr. M.A. Eşmekaya	Mechanisms of actions of antiviral, antifungal, antiparasitic drugs and resistance mechanisms Dr. A. Kalkancı	Introduction to parasitology and parasitism Dr. K. Çağlar	Poisoning, bites and wounds Dr. İ. Kılıçaslan
14:00-14:30 14:30-15:00	General properties and structure of viruses Dr. F. Doğruman Al	Definiation of inclusion and nucleus structure Dr. Ç. Elmas	Evaluation of Cell potential: Nernst, Goldman, Hodgkin- Katz and Hodgkin Huxley Models and calculation of ion currents Dr. M.A. Eşmekaya	General of helminths Dr. F. Doğruman Al	Antigen Dr. R. Karakuş
	General properties and structure of viruses Dr. F. Doğruman Al	Definiation of inclusion and nucleus structure Dr. Ç. Elmas	Evaluation of Cell potential: Nernst, Goldman, Hodgkin- Katz and Hodgkin Huxley Models and calculation of ion currents Dr. M.A. Eşmekaya	Microscopy types and use of area Dr. Z. Yiğman	Antibody Dr. R. Karakuş
15:00-15:30 15:30-16:00	Virus-host relationship Dr. K. Çağlar	Web immunology Dr. V. Bulut	General properties of molds Dr. A. Kalkancı	Immune response to the microorganisms and escape mechanisms from immune system Dr. F. Doğruman	Histochemical techniques Dr. Z. Yiğman
	Virus-host relationship Dr. K. Çağlar	Introduction to the immune system: Defense mechanisms Dr. V. Bulut	General properties of yeast Dr. A. Kalkancı	Medical entomology Dr. A. Kalkancı	Histochemical techniques Dr. Z. Yiğman

**CELL BIOLOGY COMMITTEE**

9th Week	07.12.2020 MONDAY	08.12.2020 TUESDAY	09.12.2020 WEDNESDAY	10.12.2020 THURSDAY	11.12.2020 FRIDAY
10:00-10:30 10:30-11:00	Serological reactions and microorganism antigens Dr. F. Doğruman Al	<b>Year I, 3<sup>rd</sup> Committee Theoretical Exam</b>			
	Cell division, differentiation and aging Dr. D. Dayanır				
11:00-11:30 11:30-12:00	Philosophy of Science Dr. B. Küçük Biçer				
	Philosophy of Science Dr. B. Küçük Biçer				
14:00-14:30 14:30-15:00	Medicine and Philosophy Dr. R. Olguntürk				
	Medicine and Philosophy Dr. R. Olguntürk				
15:00-15:30 15:30-16:00	Professionalism in Medicine Dr. V. Bulut				
	Professionalism in Medicine Dr. V. Bulut				