



Assist. Prof. Dr. ŞEBNEM GARİP USTAOĞLU

Bakırköy Health Campus

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Interview Hours: Pazartesi - 13:00 - 14:00

sebnem.garip@altinbas.edu.tr

EDUCATIONAL INFORMATION

Degree	University	Department	Year(s)
Doctoral Degree	Middle East Technical University	Biochemistry (Phd)	2006 - 2012
Master's Degree	Middle East Technical University	Biology (Master's) (with Thesis)	2003 - 2005
Bachelor's Degree	Istanbul University	Biology Department	1998 - 2002

RESEARCH AREAS

ACADEMIC DUTIES

Duty	University	Area	Year(s)
Doctor Faculty Member	Altinbas University	Department of Basic Medical Sciences	2013 -
Research Assistant	Rutgers, The State University of New Jersey	Materials Science & Engineering	2011 - 2012

ADMINISTRATIVE DUTIES

Duty	University	Year(s)
Commission Membership	Altinbas University	2022 -
Commission Chairmanship	Altinbas University	2022 -
Commission Membership	Altinbas University	2020 -
Commission Membership	Altinbas University	2019 - 2022
Commission Membership	Altinbas University	2019 -
Faculty Board Membership	Altinbas University	2019 -
Commission Membership	Altinbas University	2018 - 2020
Assistant Dean	Altinbas University	2017 - 2018
Head of Department	Altinbas University	2017 -
Faculty Executive Board Membership	Altinbas University	2013 - 2016

ACADEMIC AND PROFESSIONAL MEMBERSHIPS

Organisation	Membership	Year(s)
Turkish Biochemistry Society	Member	2023 -

NON-UNIVERSITY EXPERIENCE

Country	Organisation	Duty	Year(s)
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BOOKS

HEALTH & SCIENCE 2021-III

ÇIBIK SARA, GARİP USTAOĞLU ŞEBNEM

EFE ACADEMY PUBLICATION, 978-625-8065-78-7, 2021

BOOKS

Scientific Book Chapter(s)

Vibrational Spectroscopy in Diagnosis and Screening

GARİP ŞEBNEM, BOSKEY ADELE L.

IOS Press, 978-1-61499-058-1 (print) | 978-1-61499-059-8 (online), 2012

Scientific Book Chapter(s)

ARTICLES**The Impact of Vitamin C Supplementation on Recovery from Diabetes-Induced Alterations on Lipid Structure and Function of Rat Testis: An FTIR Imaging Study**

GARİP USTAOĞLU ŞEBNEM, GÜLDAĞ TAŞ DAMLA, YILMAZ ÖKKEŞ, SEVERCAN FERİDE

Journal of Biological Regulators and Homeostatic Agents, 2023

International DOI: 10.23812/j.biol.regul.homeost.agents.20233710.517

The investigation of the effects of postnatal alcohol exposure on molecular content and antioxidant capacity of mice liver tissue

ALGBURI ALI FORAT, GARİP USTAOĞLU ŞEBNEM, DURSUN İLKNUR

Life Sciences, 2022

International DOI: 10.1016/j.lfs.2022.121102

Effects of Thymoquinone (TQ) on the Molecular Structure and Total Antioxidant Capacity of Cerebellum Tissue of Healthy Rats

GARİP USTAOĞLU ŞEBNEM, ELİBOL BİRSEN

Experimed, 2022

National DOI: 10.26650/experimed.1128979

Novel approaches for COVID-19 diagnosis and treatment: a nonsystematic review

GARİP USTAOĞLU ŞEBNEM, KAYGUSUZ HAKAN, BİLGİN MEHMET DİNÇER, SEVERCAN FERİDE

Turkish Journal of Biology, 2021

International DOI: 10.3906/biy-2105-45

Fourier Transform Infrared Imaging—A Novel Approach to Monitor Bio Molecular Changes in Subacute Mild Traumatic Brain Injury

RAKİB FAZLE, AL-SAAD KHALID, GARİP USTAOĞLU ŞEBNEM, ULLAH EHSAN, MALL RAGHVENDRA, THOMPSON RICHARD, ABDELALİM ESSAM M., AHMED TARIQ, SEVERCAN FERİDE, ALI MOHAMED H. M.

Brain Sciences, 2021

International DOI: 10.3390/brainsci11070918

Biomolecular changes and subsequent time-dependent recovery in hippocampal tissue after experimental mild traumatic brain injury

GARİP USTAOĞLU ŞEBNEM, ALI MOHAMED H. M., RAKİB FAZLE, BLEZER ERWIN L. A., VAN HEIJNINGEN CAROLINE L., DIJKHUIZEN RICK M., SEVERCAN FERİDE

Scientific Reports, 2021

International DOI: 10.1038/s41598-021-92015-3

The Effects of Levetiracetam as Anti-Epileptic Drug on Bone and Vitamin D Metabolism

GARİP USTAOĞLU ŞEBNEM

Türkiye Klinikleri, 2020

National DOI: 10.5336/medsci.2020-73684

Side-Effects of Convulsive Seizures and Anti-Seizure Therapy on Bone in a Rat Model of Epilepsy

GARİP USTAOĞLU ŞEBNEM, EVİS ZAFER, İLBAY GÜL, BOSKEY ADELE, SEVERCAN FERİDE

Applied Spectroscopy, 2018

International DOI: 10.1177/0003702817734617

ARTICLES**Investigation of the relation of maternal serum endocan levels to preeclampsia presence and severity**

GÜLŞEN SERDAR, ÇEKMEZ YASEMİN, ULU İPEK, GARİP ŞEBNEM, AKSOY FATMA TUTKU, BAĞCI TÜRKMEN SİMGE, GÖK GÜLDEN, KIRAN GÜRKAN

Journal of Laboratory Medicine, 2017

International DOI: 10.1515/labmed-2017-0002

Maternal serum Netrin-1 levels as a new biomarker of preeclampsia

ÇEKMEZ YASEMİN, GARİP ŞEBNEM, ULU İPEK, GÜLŞEN SERDAR, TUŞTAŞ HABERAL ESRA, OLGAÇ YUSUF, YOĞURTÇUOĞLU ESER EVRİM, BAĞCI TÜRKMEN SİMGE, AKSOY FATMA TUTKU, KIRAN GÜRKAN

Journal of Maternal-Fetal & Neonatal Medicine, 2016

International DOI: 10.1080/14767058.2016.1201471

Structural effects of simvastatin on rat liver tissue: Fourier transform infrared and Raman microspectroscopic studies

GARİP USTAOĞLU ŞEBNEM, BAYARI SEVGİ, SEVERCAN METE, ABBAS SHERIF, LEDNEV IGOR K., SEVERCAN FERİDE

Journal of Biomedical Optics, 2016

International DOI: 10.1117/1.JBO.21.2.025008

FTIR imaging of structural changes in visceral and subcutaneous adiposity and brown to white adipocyte transdifferentiation

KÜÇÜK BALOĞLU FATMA, GARİP ŞEBNEM, HEİSE SEBASTİAN, BROCKMANN GUDRUN, SEVERCAN FERİDE ANALYST, 2015

International DOI: 10.1039/c4an02008a

Epileptic seizure-induced structural and functional changes in rat femur and tibia bone tissues: a Fourier transform infrared imaging study

GARİP ŞEBNEM, ŞAHİN DENİZ, SEVERCAN FERİDE

Journal of Biomedical Optics, 2013

International DOI: 10.1117/1.JBO.18.11.111409

Effects of carbamazepine on serum parathormone, 25- hydroxyvitamin D, bone specific alkaline phosphatase, C-telopeptide, and osteocalcin levels in healthy rats

MARAL KIR HALE, GARİP ŞEBNEM, ŞAHİN DENİZ, ÖZTAŞ BERRİN

Bosnian Journal of Basic Medical Sciences, 2012

International DOI: 10.17305/bjbms.2012.2445

Determination of simvastatin-induced changes in bone composition and structure by Fourier transform infrared spectroscopy in rat animal model

GARİP ŞEBNEM, SEVERCAN FERİDE

Journal of Pharmaceutical and Biomedical Analysis, 2010

International DOI: 10.1016/j.jpba.2010.01.044

Evaluation and discrimination of simvastatin-induced structural alterations in proteins of different rat tissues by FTIR spectroscopy and neural network analysis

GARİP ŞEBNEM, YAPICI ENGİN, ŞİMŞEK ÖZEK NİHAL, SEVERCAN METE, SEVERCAN FERİDE

ANALYST, 2010

International DOI: 10.1039/c0an00540a

Use of Fourier transform infrared spectroscopy for rapid comparative analysis of Bacillus and Micrococcus isolates

GARİP ŞEBNEM, SEVERCAN FERİDE, ÇETİN GÖZEN AYŞEGÜL

Food Chemistry, 2009

International DOI: 10.1016/j.foodchem.2008.08.063

Differentiation of Mesophilic and Thermophilic Bacteria with Fourier Transform Infrared Spectroscopy

GARİP ŞEBNEM, BOZOĞLU TAHSİN FARUK, SEVERCAN FERİDE

Applied Spectroscopy, 2007

International DOI: 10.1366/000370207779947486

PROCEEDINGS

Dose-dependent Effects of Orange (*Citrus sinensis*) Peel Extract on *Candida albicans* ATCC 10231 Strain: an ATR-FTIR Study

GARİP USTAOĞLU ŞEBNEM, USMAN HIKMAT ULLAH KHAN, UÇAK OĞUZCAN, GEDİK KAPANCIK TUĞÇE NAİME, ÖZBEK AHMET, DEMİRAY TAYFUR, SEVERCAN FERİDE

5th International/34th National Biophysics Congress, 2023

International

Exploring Diet-Related Biomolecular Alterations in Medulla Oblongata With IR Spectroscopy And Biochemical Analysis

KAÇIRA GÖKTUĞ, GARİP USTAOĞLU ŞEBNEM, DOĞAN AYÇA

TBD Uluslararası Biyokimya Kongresi / 34. Ulusal Biyokimya Kongresi, 2023

International

Detection of CNS Involvement in Acute Leukaemia By Infrared Spectroscopy

LASAKI ABIDOUN, GARİP USTAOĞLU ŞEBNEM, ZENGİN ERSOY GİZEM, FIŞGIN TUNÇ, SEVERCAN FERİDE

1. Ulusal Sağlık Hizmetleri ve Bilimleri Kongresi, 2023

National

An Important Pathogen in Nosocomial Infections: *Klebsiella* Spp.

HELAL ISSRA, GARİP USTAOĞLU ŞEBNEM, GEDİK KAPANCIK TUĞÇE NAİME, ÖZBEK AHMET

1. Ulusal Sağlık Hizmetleri ve Bilimleri Kongresi, 2023

National

Doza Bağlı Olarak Portakal Kabuğu Ekstresinin *Candida Albicans* Üzerindeki Antifungal Etkisinin, İnfrared Spektroskopisi ile Birlikte Temel Bileşen Analizi Kullanılarak Belirlenmesi

UÇAK OĞUZCAN, GARİP USTAOĞLU ŞEBNEM, GEDİK KAPANCIK TUĞÇE NAİME, ÖZBEK AHMET, SEVERCAN FERİDE

1. Ulusal Sağlık Hizmetleri ve Bilimleri Kongresi, 2023

National

Infrared (Kızılötesi) Görüntüleme ile Yumuşak ve Sert Dokuların Biyomoleküler Karakterizasyonu

GARİP USTAOĞLU ŞEBNEM

1. Ulusal Sağlık Hizmetleri ve Bilimleri Kongresi, 2023

National

DETERMINATION OF THE MOLECULAR CHANGES IN LIVER TISSUE PROTEINS AND LIPIDS DUE TO PRENATAL ALCOHOL CONSUMPTION

AL-GBURI ALI FORAT ABDULSATTAR, DURSUN İLKNUR, GARİP USTAOĞLU ŞEBNEM

5th International Health Sciences and Life Congress, 2022

International

Investigation Of Antioxidant And Lipid Peroxidation Levels in Kidney Tissue of Mice Exposed To Postnatal Alcohol

AKSOY FATMA TUTKU, DURSUN İLKNUR, GARİP USTAOĞLU ŞEBNEM

TBD Uluslararası Biyokimya Kongresi / 33. Ulusal Biyokimya Kongresi, 2022

International

HIGH FAT AND HIGH CARBOHYDRATE DIET INDUCED REGULATION IN METABOLIC RESPONSE OF OBESITY

GARİP USTAOĞLU ŞEBNEM, DOĞAN AYÇA

3rd International Congress on Medical Sciences and Multidisciplinary Approaches, 2021

International

Applications of Fourier transform infrared spectroscopy in detecting disease or drug-related molecular changes in soft tissues

GARİP USTAOĞLU ŞEBNEM

4th International Eurasian Conference on Biological and Chemical Sciences, 2021

International

PROCEEDINGS

Investigation of Dietary Impact on Lactobacilli and Microbiota

GEDİK KAPANCIK TUĞÇE NAİME, GARİP USTAOĞLU ŞEBNEM

International Eurasian Conference on Biotechnology and Biochemistry (BioTechBioChem 2020), 2020

International

Atr-Ftir Spectroscopic Characterization Of Sage Species In Turkey Rich In Biomolecular Content Which Can Be Used In Traditional Medicine

GARİP USTAOĞLU ŞEBNEM

3rd International Health Science And Life Congress (Ihslc 2020), 2020

International

Bone Quality Assessment with Infrared Microspectroscopy in Preclinical Applications of Drug-Related Bone Disorders

GARİP USTAOĞLU ŞEBNEM

3rd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2020), 2020

International

Investigation of the Structural Effects of Radiotherapy Dose Rate on Rat Lung Tissue: An FTIR Imaging Study.

ÖZYURT İPEK, GARİP USTAOĞLU ŞEBNEM, KÜÇÜK BALOĞLU FATMA, ZORLU ABDULLAH FARUK, SEVERCAN FERİDE

63th Annual Biophysical Society Meeting, 2019

International

The effects of Carbamazepine, an anti-epileptic drug, on structure and surface roughness of healthy rat bone tissues: an FTIR Microspectroscopy and AFM Microscopy Study

GARİP USTAOĞLU ŞEBNEM, İLBAY GÜL, Mann Adrian, SEVERCAN FERİDE

63th Annual Biophysical Society Meeting, 2019

International

Decreased maternal serum Netrin-1 levels as a new predictor of preeclampsia

ÇEKMEZ YASEMİN, GARİP ŞEBNEM, ULU İPEK, GÜLŞEN SERDAR, TUŞTAŞ HABERAL ESRA, OLGAÇ YUSUF, YOĞURTÇUOĞLU ESER EVRİM, BAĞCI TÜRKMEN SİMGE, AKSOY FATMA TUTKU, KIRAN GÜRKAN

11. Turkish-German Gynecological Association Congress, 2016

National

Embryo Quality Assessment in in Vitro Fertilization (IVF) using metabolite footprints secreted to human embryo culture media by ATR-FTIR spectroscopy and multivariate analysis

GARİP ŞEBNEM, CEYHAN SEYİT TEMEL, KORKMAZ CEM, AKSOY MÜGE, GÜNEY ELİF, BAL ESİN, SEVERCAN FERİDE

32nd Annual Meeting of the European Society of Human Reproduction and Embryology, 2016

International

Investigation of Gender Effect on Obesity using a Model of Inbred Obese Mouse Lines by Fourier Transform Infrared Imaging

KÜÇÜK BALOĞLU FATMA, BROCKMANN GUDRUN, HEISE SEBASTIAN, GARİP ŞEBNEM, SEVERCAN FERİDE

59th Annual Biophysical Society Meeting, 2015

International

Epileptic Seizure-induced Structural Changes in Genetically Epileptic Rat Bone Tissues: A Synchrotron-Fourier Transform Infrared Imaging Study

GARİP ŞEBNEM, ŞAHİN DENİZ, MILLER LISA L., SEVERCAN FERİDE

Modeling of Biomolecular Systems Interactions, Dynamics, and Allosteric, 2014

International

Epileptic Seizures-Induced Structural Changes in Rat Spine Bone Tissues: FTIR Microspectroscopic and Chemometric Study

GARİP ŞEBNEM, ŞAHİN DENİZ, SEVERCAN METE, SEVERCAN FERİDE

57th Annual Biophysical Society Meeting, 2013

International

PROCEEDINGS

Sıçan Omurga Dokularındaki Epileptik Nöbet alakalı Yapısal Değişiklikler: FTIR ve Raman Mikrospektroskopi Çalışması
GARİP ŞEBNEM, ŞAHİN DENİZ, MANN ADRIAN, SEVERCAN FERİDE

11.Ulusal Sinir Bilimleri Kongresi, 2013

National

Epileptic seizures-induced structural changes in rat spine bone tissues: FTIR microspectroscopic and chemometric study
GARİP USTAOĞLU ŞEBNEM, ŞAHİN DENİZ, SEVERCAN METE, SEVERCAN FERİDE

57th Annual Biophysical Society Meeting, 2013

International

The side-effects of convulsive epileptic seizures and Carbamazepine therapy on bone tissues of genetically-induced epileptic rats: An FTIR imaging and biomechanical study

GARİP ŞEBNEM, EVİS ZAFER, İLBAY GÜL, BOSKEY ADELE L., SEVERCAN FERİDE

Experimental Biology, 2011

International

Discrimination of Simvastatin-induced structural alterations in proteins of different rat tissues by FTIR Spectroscopy and neural network analysis

GARİP ŞEBNEM, YAPICI ENGİN, ŞİMŞEK ÖZEK NİHAL, SEVERCAN METE, SEVERCAN FERİDE

SPEC2010; Shedding Light on Disease: Diagnostic Applications for the New Millenium, 2010

National

The side-effects of convulsive seizures on epileptic rat bone tissue

GARİP ŞEBNEM, İLBAY GÜL, BOSKEY ADELE, SEVERCAN FERİDE

2nd International Biophysics Congress and Biotechnology at GAP (Southeastern Anatolian Project) & the 21st National Biophysics Congress, 2009

National

Konvulsif Nöbetlerin ve Uzun Süreli Karbamazepin Terapisinin Mıks Form Epileptik Sıçan Kemik Dokular› Üzerindeki Yan Etkileri

GARİP ŞEBNEM, ŞAHİN DENİZ, BOSKEY ADELE, SEVERCAN FERİDE

8.Ulusal Sinir Bilimleri Kongresi, 2009

National

Yüksek ve alçak doz Simvastatin terapisinin sıçan kemik dokusu üzerindeki moleküler etkileri

GARİP ŞEBNEM, SEVERCAN FERİDE

20. Ulusal Biyofizik Kongresi, 2008

National

The effects of high and low dose Simvastatin on rat tibia: A Fourier Transform Infrared Spectroscopy

GARİP ŞEBNEM, SEVERCAN FERİDE

9th International Conference on the Chemistry and Biology of Mineralized Tissues, 2007

International

The characterization of mesophilic and thermophilic bacteria with Fourier transform infrared spectroscopy

GARİP ŞEBNEM, ZORLU ABDULLAH FARUK, SEVERCAN FERİDE

SPEC2006; Shedding Light on Disease: Diagnostic Applications for the New Millenium, 2006

International

Fourier Transform Infrared (FTIR) Spektroskopisi Tekniği ile Bakteri Karakterizasyonu

ZORLU ABDULLAH FARUK, SEVERCAN FERİDE, GARİP ŞEBNEM

17.Ulusal Biyofizik Kongresi, 2005

National

PROJECTS

Detection of biomolecular content rich types of sage in Turkey with ATR-FTIR spectroscopy (Executive)

Scientific research project supported by Higher Education Institutions, 30.08.2019 - 30.07.2020

National

Completed

PROJECTS

ULTRA-FAST CHEMICAL ANALYSIS IMAGING WITH RAMAN- uCAIR (Researcher)

European Union, 01.01.2024 - 01.06.2027

International Continues

Prenatal ve Doğum Sonrası Erken Postnatal Dönemde Alınan Alkolün Farelerin Kemik Moleküler Yapısı ve Metabolizması Üzerindeki Etkilerinin Araştırılması (Executive)

Scientific research project supported by Higher Education Institutions, 01.03.2022 - 01.03.2023

National Completed

Türkiyede Doğal Olarak Yetişen ve Geleneksel Tedavide Kullanımı Olan Farklı Equisetum L. (At Kuyruğu) Türlerinin Kemik Moleküler Yapısı ve Metabolizması Üzerindeki Etkilerinin Araştırılması (Executive)

Tübitak 1001, 15.02.2022 - 15.10.2024

National Completed

Characterization of physiological, structural and biomolecular changes in brain tissue underlying functional impairment after experimental traumatic brain injury (Researcher)

Other (International), 16.12.2015 - 16.12.2019

International Completed

Synthesis of new Vitamin E analog and investigation of its possible anti-cancer effects on breast and prostate cancer cells by biochemical, biophysical and molecular biological methods (Researcher)

TÜBİTAK Project, 15.07.2015 - 15.11.2017

National Completed

The investigation of the structural and functional effects of long-term Levetiracetam treatment on healthy and genetically-induced epileptic rat tissues and vitamin D metabolism using Raman and FTIR Microspectroscopy (Executive)

Scientific research project supported by Higher Education Institutions, 03.11.2013 - 02.11.2014

National Completed

Investigation of the effects of long-term swimming exercise on bone tissue in molecular level (Researcher)

Scientific research project supported by Higher Education Institutions, 02.11.2015 - 02.11.2016

National Completed

Kemometrik ve İstatistik Metodları İle Kızılötesi Spektrumlarından Portakal Ekstresi-Candida Albicans Etkileşmesinin Moleküler Karakterizasyonu Ve Biyobelirteç Belirlenmesi (Researcher)

Scientific research project supported by Higher Education Institutions, 01.11.2019 - 01.09.2021

National Completed

Atr Ft-İr Spektroskopisi Tekniği ile Sığır Serum Albümin Proteinleri Üzerinde Agregasyon Araştırması (Researcher)

Scientific research project supported by Higher Education Institutions, 01.11.2015 - 30.09.2016

National Completed

Effects of High Fat and High Carbohydrate Diets on the Mouse Liver Tissues on Different Genders (Researcher)

Tübitak 3501, 01.10.2018 - 24.08.2022

National Completed

Karbapenem Duyarlı ve Dirençli Klebsiella Pneumoniae İzolatlarının Fourier Dönüşüm Kızılötesi (Ftir) Spektroskopisi ile Karakterizasyonu ve Dirençten Sorumlu Gen Bölgelerinin Rt-Pcr ile Belirlenmesi (Executive)

Scientific research project supported by Higher Education Institutions, 01.03.2017 - 31.08.2018

National Completed

THESIS SUPERVISION

Detection of chemometric markers in liver tissue using infrared spectroscopy

ARWA DAHHAM ABDULHADI QADAWEE

2023 Master's Degree

THESIS SUPERVISION

The characterization of carbapenem-sensitive and -resistant klebsiella pneumoniae isolates by fourier transform infrared (FTIR) spectroscopy

ISSRA HELAL

2023 Master's Degree

Comparison of conventional cytomorphology, automated cell counting and FTIR spectroscopy for detection of CNS involvement in acute leukaemia

ABIODUN ESOHE LASAKI

2023 Master's Degree

The investigation of the structural effects of post-natal alcohol exposure on mice liver tissue by fourier transform infrared (FTIR) spectroscopy

ALI ALGBURI

2022 Master's Degree

The physiochemical taxonomic characterization of some gundelia species by fourier transform infrared (FTIR) spectroscopy

JAMEL Z M SABBAAH

2022 Master's Degree

In-vitro effects of orange peel extracts on candida albicans, a major source of fungal infections

HIKMAT ULLAH KHAN USMAN

2022 Master's Degree

Radyasyon doz hızının akciğer dokusu üzerindeki etkilerinin incelenmesi

İpek Özyurt

2020 Master's Degree

Radyoterapi Doz Hızının ve Tedavi Sonrası Geçen Sürenin Akciğer Dokusu Üzerindeki Yapısal Etkilerinin Kızılötesi Görüntüleme Tekniği İle İncelenmesi

İPEK ÖZYURT

2020 Master's Degree

COURSES

Course Type	Course Code	Course Name
Bachelor's Degree	MED254	BIOCHEMICAL GENETICS AND HEREDITARY DISEASES
Bachelor's Degree	MED255	GASTROINTESTINAL SYSTEM AND METABOLISM
Bachelor's Degree	MED210	INTRODUCTION TO CLINICAL MEDICAL SCIENCES
Bachelor's Degree	MED108	THE TISSUE
Bachelor's Degree	MED104	MOLECULAR AND CELLULAR MEDICAL SCIENCES III
Bachelor's Degree	MED208	ENDOCRINE AND UROGENITAL SYSTEM
Bachelor's Degree	MED219	ENDOCRINE AND UROGENITAL SYSTEMS
Bachelor's Degree	MED229	DIGESTIVE SYSTEM AND METABOLISM
Bachelor's Degree	MED303	NEOPLASIA AND HEMATOPOIETIC SYSTEM DISEASES
Bachelor's Degree	MED253	BLOOD, CIRCULATORY AND RESPIRATORY SYSTEMS

PERSONAL INFORMATION

PERSONAL INFORMATION**CONTACT INFORMATION**

Interview Hours: Pazartesi - 13:00 - 14:00

Bakırköy Health Campus

Kartaltepe Mah. İncirli Cad. No:11 Bakırköy - İstanbul

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