



SAĞLIK  
BİLİMLERİ  
ENSTİTÜSÜ



ENSTİTÜSÜ  
BİLGİLERİ

# PHARMACEUTICAL MICROBIOLOGY GRADUATE PROGRAMS



# ACADEMIC STAFF

- **Prof. Dr. Berrin ÖZCELİK** (Head of the Department)
- **Assoc. Prof. Melahat KURTULUŞ**
- **Asist. Prof Özlem OYARDI**
- **Res. Asist. Gülbeyaz ALTUNBOĞA**



# FIELDS OF RESEARCH

- Identification, culture, preparation and use of appropriate solvents, staining techniques of strains,
- Bioactivity tests; minimum inhibition concentration (MIC) tests: activity determinations in new synthesis and herbal extracts; antibacterial activity, antifungal activity, antidermatophytic activity, antiviral activity, antiprobiotic, antibiofilm
- Antimicrobial susceptibility: Bacterial/ - Fungal; resistance - sensitivity, cell culture, cytotoxicity
- Sterilization, Disinfection
- Vaccinations
- Probiotic microorganisms and their functions
- Microbiological analysis, disk diffusion / agar dilution tests
- Infection control, hygiene
- Evaluation and application on ABO - blood groups, DNA isolation, agarose gel electrophoresis, polymerase chain reaction
- Up-to-date information on treatment and prevention methods for disease-causing pathogens, practices in pharmacies
- Infectious microorganisms, pathogenicity, virulence, sterilization, disinfection, hygiene, laboratory tests, immune system, vaccines, antimicrobial drugs, resistance, microbial genetics, genetic transfer and treatment in bacteria

# RESEARCH FACILITIES (LABORATORY INFRASTRUCTURE)



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- Sterile Cabinet (Chemocell LRCCX-UV, ClassII)
- Ultrasonic Bath (Kotterman, 3165)
- Autoclave (Nüve, OT4060)
- Precision scale (Shimadzu, AW320)
- Water bath (Kotterman, 3165)
- Pasteur oven (NEL, Heraeus, NR900)
- Drying oven (Heraeus, FB420)
- Vortex (Firlabo, V3000F)
- Incubator (Jouan, EB115)
- Carbon dioxide incubator (Nüve, EC160)
- Magnetic stirrer with heater (BIOSAN, MSH300)
- pH meter (Hanna, HI5522-02)
- Deep freezer (Uğur, UDD 200 BKYS)
- Refrigerator (Indesit No Frost)

# QUOTA NUMBERS AND PROGRAM ADMISSION REQUIREMENTS FOR SPRING SEMESTER 2023/2024



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QUOTA			SCORE TYPE	PROGRAM TYPE	SCORE CRITERIA		
MASTER'S DEGREE	DOCTORATE	FOREIGN NATIONAL MA/DR.			ALES SCORE/ *TUS*	FOREIGN LANGUAGE SCORE	GRADUATION GRADE (UNDERGRADUATE / MA)
2	-	-	E.W.	MASTER'S DEGREE	65	50	2.00/4.00
			E.W./NUM.	DR.			

## UNDERGRADUATE PROGRAMS ADMITTING STUDENTS

DOCTORATE							
DOCTORATE							
DOCTORATE							
MASTER'S DEGREE	2544						Pharmacy