



SAĞLIK
BİLİMLERİ
ENSTİTÜSÜ



ENSTİTÜSÜ
BİLGİLERİ

DEPARTMENT OF BIOCHEMISTRY (PHARMACY) GRADUATE PROGRAMS

ACADEMIC STAFF



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- **Prof. Dr. Sevgi YARDIM (Head of the Department)**
- **Prof. Dr. Yeşim ÖZKAN**
- **Prof. Dr. Aymelek GÖNENÇ**
- **Assoc. Prof. Dr. Aysun HACIŞEVKİ**
- **Assist. Prof. Dr. Emel ÇALIŞKAN CAN**
- **Assist. Prof. Dr. Ece MİSER SALİHOĞLU**
- **Assist. Prof. Dr. Simla OLGAÇ**
- **Assist. Prof. Dr. Taylan TURAN**
- **Research Assist. Turgut KAYA**
- **Research Assist. Özge GÜNDÜZ**



FIELDS OF RESEARCH



- Platelet signaling pathways and aggregation mechanisms, novel target receptors in antiplatelet activity,
- Rare diseases, novel biomarkers in lysosomal storage diseases. Rare diseases, novel biomarkers in lysosomal storage diseases,
- Interdisciplinary screening studies aimed at discovering inhibitors or activators of enzymes (IDO, Hcy thiolactonase, SIRT6) that could be drug targets,
- Experimental and clinical research on amino acid (cysteine, methionine, homocysteine, tryptophan) metabolism,
- Research on glial tumor biology, circulating biomarkers, and the roles of oncolytic viruses in gliomagenesis processes,
- Searching for new preventive and protective treatments in Alzheimer's disease,
- Gene silencing studies,
- Mitochondrial transplantation in the prevention or treatment of diseases,
- Molecular studies aimed at preventing drug resistance in cancer treatment,
- Research into new biomarkers for disease diagnosis, genetic polymorphism studies, and PCR-based techniques,



FIELDS OF RESEARCH



- DNA damage and repair mechanisms,
- Endoplasmic reticulum stress,
- Blood-brain barrier homeostasis, microvascularization and tight junctions, and bioneurocritical markers in obesity,
- Apoptosis,
- Enzyme activity screening tests and elucidation of inhibition mechanisms,
- Studies on free radical biomarkers and antioxidant activity.

In general, the following studies are conducted in the Department:

- Cell culture studies
- Mitochondrial transplantation
- Protein analysis using Western-Blot and RAMAN spectroscopy methods
- Gene expression studies
- Drug or biomarker studies using HPLC, LC-MS/MS
- ELISA studies
- Various spectrophotometric studies.



RESEARCH FACILITIES (LABORATORY INFRASTRUCTURE)



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Our three research laboratories include:

1. Cell culture laboratory
2. Agrogometer (APACT 4004)
3. Hematology analyzer
4. SpectraMax i3x Multi-Mode microplate reader
5. HPLC (High Performance Liquid Chromatography)
6. RT-PCR (Real-Time Polymerase Chain Reaction)
7. Western blot electrophoresis
8. Basic laboratory equipment



Quota Numbers and Admission Requirements for the 2025/2026 Spring Semester



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QUOTA		SCORE TYPE	PROGRAM TYPE	SCORE CRITERIA		
MASTER'S DEGREE	FOREIGN NATIONAL MA			ALES SCORE	FOREIGN LANGUAGE SCORE	GRADUATION GRADE (UNDERGRADUATE)
7	-	ALES NUM.	MASTER'S DEGREE	65	50	2,25/4,00

UNDERGRADUATE PROGRAMS ADMITTING STUDENTS

MASTER'S DEGREE	Undergraduate KODBID No	Program
		5370
	2544	Faculty of Pharmacy
	4202	Molecular Biochemistry and Genetics
	4207	Molecular Biology and Genetics
	4203	Molecular Biology
	7174	Molecular Biology, Genetics and Bioengineering
	2116	Biochemistry
	2154	Biotechnology and Molecular Biology
	3754	Chemical and Biological Engineering
	1966	Nutrition and Dietetics



Quota Numbers and Admission Requirements for the 2025/2026 Spring Semester



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QUOTA		SCORE TYPE	PROGRAM TYPE	SCORE CRITERIA		
DOCTORATE	FOREIGN NATIONAL DR			ALES SCORE	FOREIGN LANGUAGE SCORE	GRADUATION GRADE (UNDERGRADUATE /MA)
5	-	ALES NUM.	DR.	70	60	2,25/4,00

UNDERGRADUATE + MA PROGRAMS ADMITTING STUDENTS

DOCTORATE	Undergraduate KODBID No	Program	MA KODBID No	Program
		5370	Faculty of Medicine	5370
	2544	Faculty of Pharmacy	2544	Faculty of Pharmacy
			3648	Cancer Biochemistry
			2119	Biochemistry (Medicine)
			5315	Medical Biochemistry (Medicine)
			2121	Biochemistry and Clinical Biochemistry
			4202	Molecular Biochemistry and Genetics
			2115	Biochemistry (Pharmacy)
			2838	Pharmaceutical Biochemistry

