SAĞLIK
BİLİMLERİ
ENSTİTÜSÜ

DEPARTMENT OF PHYSIOLOGY GRADUATE PROGRAMS

ACADEMIC STAFF

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FIELDS OF RESEARCH

SAĞLIK BİLİMLERİ ENSTİTÜSÜ

1. Free radicals and antioxidants
--- NO (NO measurment in isolated guinea pig, rheumatologic heart diseases, AML), MDA, GSH, SOD ,histamine levels, C vit, E vit, melatonine effect

2. Aging (antioxidants, immune system and apoptosis relationship, telomerase activity, sirtuins, aging mechanism)

3. Wound healing
--- Wound healing in the eye, skin, intestine, colonic anastomosis, gastric ulser and denervation models
--- Wound healing in the sleep deprivation
--- Effect of the growth factors, leptin, amino acids and antioxidant applications on the wound healing in the normal and diabetic subjects
--- Relationship between free radicals, zinc level, hydroxyproline level and wound stretch
--- Effect of taurine and ginkgo biloba on the wound healing in the CCl4-induced hepatic injury
--- Ozone (Role of ozone application in the wound healing)

4. Diabetes

5. Ischaemia-Reperfusion
--- Relationship between amino acids, antioxidants and ginkgo biloba levels in the heart, lungs and nerves

6. Exercise
--- Relationship between antioxidants and free radicals
--- Comparison of respiratory and blood parameters in elite athletes

FIELDS OF RESEARCH

7. Food restriction

8. Learning
--- Relationship between diets and antioxidants, free radicals
--- Learning in rats with cholinergic system damage

9. Smooth muscle contraction-relaxation responses (aorta, gastrointestinal system, uterus, urinary bladder)

10. Effect of growth factors on the organisma

11. Relationship between peptide, antioxidant, free radical and pinealectomy

12. Hypoxia and opioid peptides
--- Hypoxic preconditioning
--- Intracerebroventricular opioid administration

13. Viscosity of blood and plasma

14. Stress

15. Sepsis and blood flow

16. Alzheimer's disease models (Evaluation of learning and behaviour models in beta amyloid induced transgenic mouses)

17. Fibrosis

-> CCl4 and d-galactose induced fibrosis

18. Application of lipid peroxidation, ascorbic acid and alloxan in electromagnetic field

RESEARCH FACILITIES (LABORATORY INFRASTRUCTURE)

SAĞLIK BİLİMLERİ ENSTİTÜSÜ

- Electrophoresis equipment (Molecular analysis, western blot)
- Microplate reader (ELISA, total protein measurement)
- Viscometer (viscosity measurement, hemorheology measurement)
- Stereotaxic surgery apparatus (Rat)
- Open field test (Behavioural experiment)
- Elevated plus maze (Behavioural experiment)
- Morris water tank test (Behavioural experiment)
- Western blotting systems
- Langendorff isolated tissue perfusion system
- Electrocardiography (Effort)
- İsolated tissue bath
- Treadmill (for human)
- Tissue homogenization devices
- Centrifuge machine
- Hypoxia chamber
- Treadmill (for rat)
- Thermomixer
- Biopac data acquisition system

RESEARCH FACILITIES (LABORATORY INFRASTRUCTURE)

SAĞLIK BİLİMLERİ ENSTİTÜSÜ

- Electrical stimulator
- pH meter
- Deep freezer (-80 °C, -20 °C)
- Refrigerator (+4 °C)
- Bain-marie (water bath)
- Nitrogen tank
- Oxygen tank
- Distilled water device
- Magnetic stirrer and heater
- Vortex
- Micromotor system
- Mini rocker
- Surgical set
- Sensitive scale
- Weighing machine
- Spirometer
- Force and displacement transducers
- Laminar flow
- Acids bases cabinet
- Fume hood
- CO_2 incubator
- Biomedical gas system

QUOTA NUMBERS AND ADMISSION REQUIREMENTS FOR THE 2025/2026 SPRING SEMESTER

QUOTA					SCORE CRITERIA		
MASTER'S DEGREE	DOCTORATE	FOREIGN NATIONAL MA/DR.	SCORE TYPE	PROGRAM TYPE	ALES SCORE/ *TUS*	FOREIGN LANGUAGE SCORE	GRADUATION GRADE (UNDERGRADUATE/ MA)
5	5	-	NUM.	MASTER'S DEGREE	65	65	3,00/4,00
			NUM.	DR.	70	70	3,00/4,00 (for MA) 2,50/4,00 (for UNDERGRADUATE)

UNDERGRADUATE PROGRAMS ADMITTING STUDENTS

DOCTORATE	5370	GRADUATED FROM FACULTY OF MEDICINE
	2490	GRADUATED FROM FACULTY OF DENTISTRY
	MASTER'S DEGREE FROM DEPARMENT OF PHYSIOLOGY IN FACULTY OF MEDICINE	
	5333	MEDICAL PHYSIOLOGY
	2922	PHYSIOLOGY (MEDICINE)
	5378	PHYSIOLOGY OF MEDICINE
	2554	PHARMACY
MASTER'S DEGREE	2927	PHYSIOTHERAPY AND REHABILITATION
	2124	BIOLOGY
	2154	BIOTECHNOLOGY AND MOLECULAR BIOLOGY
	2095	BIOINFORMATICS AND GENETICS
	4207	MOLECULAR BIOLOGY AND GENETICS
	7174	MOLECULAR BIOLOGY, GENETICS AND BIOENGINEERING
	2116	BIOCHEMISTRY (FACULTY OF SCIENCE, SCIENCE AND LITERATURE, BASIC SCIENCE)