

YEDİTEPE UNIVERSITY



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Fahrettin
KELEŞTEMUR

Gazi
YAŞARGİL

Fikrettin
ŞAHİN

Muzaffer
DEĞERTEKİN



**CLINICAL, PRE-CLINICAL &
HEALTH SCIENCES**
at YEDİTEPE UNIVERSITY



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Ahmet Aydın is carrying out preclinical toxicity studies and biocompatibility evaluation for drugs, medical devices and cosmetic substances before registration. In vitro, in vivo and in silico methods are carried out by Dr. Aydın and his co-workers to ensure safety of products.

Bahar Eren Kuru conducts researches on periodontology and implant surgery with an emphasis on disease prevention, periodontal microbiology, probiotics, dental lasers, adjunctives of non-surgical approaches as well as regeneration/bioengineering of lost periodontal tissues and mucogingival surgical treatment.

Erdem Yeşilada is mainly focused on preclinical ethnopharmacological investigations on herbal medicines in order to find scientific proof for their health benefits. Also phytochemical and analytical studies are conducted for isolation and structure elucidation of their active ingredients and their qualitative/quantitative content analysis.

Fahrettin Keleştemur and his colleagues described pituitary insufficiency in athletes for the first time. He is currently studying the mechanisms of underlying traumatic brain injury-induced neuroendocrine changes and developing protective measures from brain injury. He is also studying assessment of stress system including hypothalamo - pituitary - adrenal axis.

Hasan Kırmızıbekmez studies in the fields of Pharmacognosy, Phytochemistry and Phytotherapy. His researches include the isolation and structure elucidation of bioactive secondary metabolites from medicinal and aromatic plants. He is particularly interested in the isolation of cytotoxic and anti-inflammatory secondary metabolites from traditionally-used plant species.

Mustafa Özilgen made significant contributions to medical literature with his publications in the field of "medical thermodynamics". His publications focused on thermodynamic assessment of life processes during pregnancy, thermodynamic assessment of the nutrition of cancer patients, work performance by myometrium muscles, etc.

Canan Aykut Bingöl, MD, Prof. of Neurology, is interested primarily in epilepsy and neurophysiology. Research areas are basic mechanisms of epilepsy, epilepsy surgery, EEG interpretation of seizures.

Aydın Sav is mainly interested and published in oncologic neuropathology and pituitary neoplasms. His main research areas are on early precursors or markers of glial tumors using association studies; analysis of normal appearing brain parenchyma of neoplastic for oncogenic changes, metabolic changes during the course of glial tumors; optimizing the extent of resection for low grade gliomas.

Fikretin Şahin and his co-workers focus on molecular characterization of plants, soil, food and animal or human associated microorganisms, biological properties of the molecules from medicinal plants, hygiene products, stem cell and cancer.

Gamze Torun Köse's research area is concentrated on Tissue engineering (Bone, Cartilage, Nerve); Biomaterials and Surface Modification; Stem Cells (Bone marrow, Adipocyte, Amniotic, Dental Follicle, Dental Pulp, Dental Germ); Drug or Growth Factor Release Systems and Gene Therapy.

Rukset Attar and her co-workers focus on molecular mechanisms, etiopathogenesis and new treatment modalities of endometriosis, pelvic pain, infertility, leiomyoma uteri and cancer. They carry out in vitro and in vivo studies.

Duygun Erol Barkana made contributions to medical robotics area especially in the field of robot-assisted rehabilitation systems. Her research interests also include development of control methodologies for exoskeleton system, recognition of the emotions during human-robot interaction, usage of social robots for children with autism, and development of assistive audiology rehabilitation robot for deaf children.

Bayram Yılmaz's current research interests focus on neuroscience, neuroendocrinology (brain neurotransmitter control of pituitary hormones and food intake), thermodynamic assessment of life processes and endocrine disrupters. His research group at the Brain Research Laboratory employs a number of state of the art research technologies in neuroscience including optogenetic, patch clamp electrophysiology, brain microdialysis and fiber photometry analysis of calcium imaging.

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