



**İL AÇ VE FARMASÖTİK
TEKNOLOJİ UYGULAMA
VE ARAŞTIRMA MERKEZİ
≡ KTÜ İLAFAR ≡**

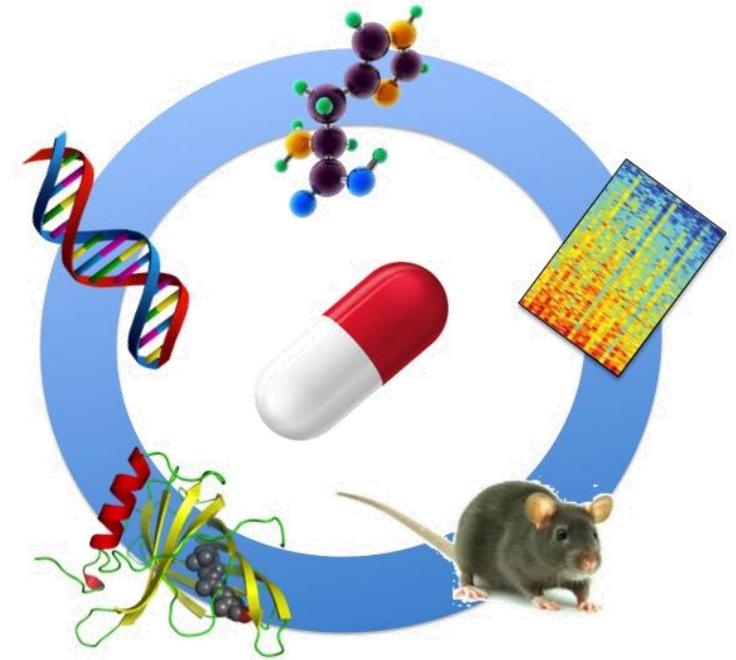
**DRUG AND PHARMACEUTICAL
TECHNOLOGY APPLICATION
AND RESEARCH CENTER
≡ KTU İLAFAR ≡**



*Est. 2018
Trabzon, TÜRKİYE*

Who are we? What do we do?

- Established in August 17, 2018
- A preclinical academic research center
- Purpose and research area:
 - ✓ conducting multidisciplinary pre-clinical R&D projects to develop/identify novel active substances (*natural, synthetic, semi-synthetic, biotechnological, repositioning*) and pharmaceutical formulations (*new excipients, targeted carrier systems*).
 - ✓ able to conduct all pre-clinical studies required for the registration process of drugs (*for human use, veterinary use, agricultural use/pesticides*)
 - ✓ **GLP (Good Laboratory Practice) certification for toxicity studies, Jan 2024**



Research groups/areas

- Bioactive molecule isolation, analysis and characterization
- Biochemical method development and instrumental analysis
- Pharmaceutical biotechnology
- Pharmacological activity and toxicology
- Formulation and biomaterial development
- Innovative artificial intelligence applications



Modern research facility



BUILDING OF KTU
SCIENTIFIC RESEARCH
CENTER

İLAFAR- 2nd Floor, 1410 m²



Research laboratories



Research animal housing labs.
(controlled access hallway)



In vivo/in vitro pharmacology labs.

- Myograph and tissue bath setup
- Blood pressure monitoring system
- Hematology (Vetscan Hm5) and biochemical analysis (Vetscan Vs2)
- Necropsy area

Research laboratories



Common equipment lab
(All labs. are GLP compliant and controlled access)



Isolation and analysis lab.

- Plant drying shelves
- Rotary evaporator
(*projects with endemic plants & medicinal/aromatic plants*)

Research laboratories

Instrumental analysis lab. / Formulation development lab.



- Electrospinner
(midazolam pediatric ODF; nistatin geriatric-dental ODF projects)



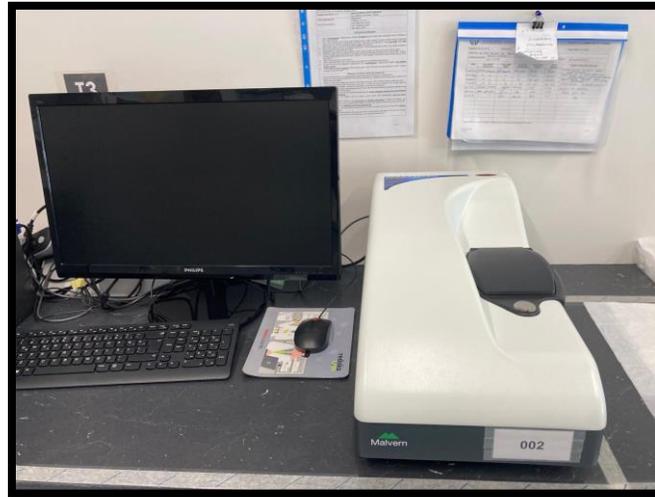
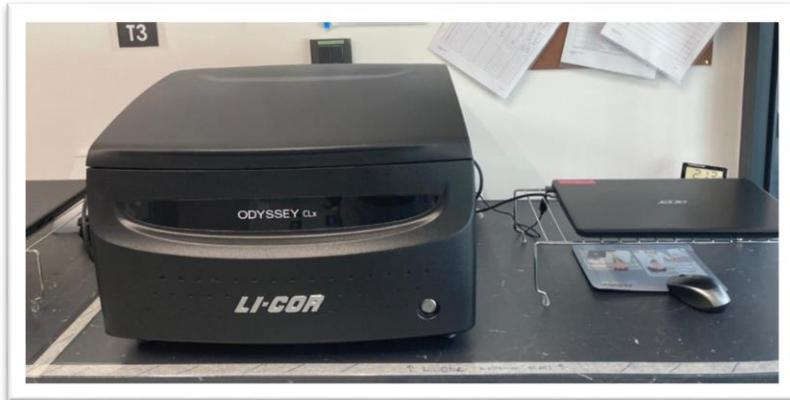
- Osmometer
- uHPLC /SEC-HPLC
(mAb formulation and analysis projects)

Cell culture lab.



- Cell lines: HaCaT, SHSY-5Y, L929, BEAS-2B, HeLa, A549
- In vitro models (inflammation, psoriasis, Alzheimers)
- Cytotoxicity tests

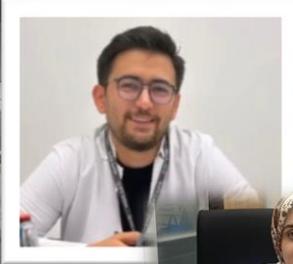
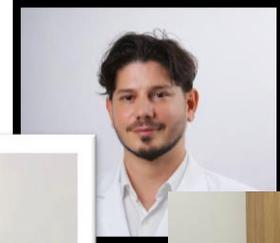
Research laboratories



Instruments for imaging,
nanoparticle analysis,
spectrophotometric and
molecular analysis



We invite you to explore the research groups, goals, mission & vision, and the projects of the ILAFAR, first academic research center in our region for preclinical drug discovery and development of pharmaceutical formulations and also to **share our lab facilities, join as for an internship/postdoctoral fellowship and to collaborate on research projects...**



www.ktu.edu.tr/ilafar



<https://www.instagram.com/ktuilafar/>



ilafar@ktu.edu.tr