



T.C.
MERSİN UNIVERSITY
INSTITUTE OF HEALTH SCIENCES

DEPARTMENT OF PHARMACEUTICAL CHEMISTRY

GRADUATE PROGRAMS
2025

HISTORY

A postgraduate program was opened in the Department of Pharmaceutical Chemistry of Mersin University Faculty of Pharmacy in 2005, affiliated with the Institute of Health Sciences, and Master's degree education started in the Fall Semester of the 2005-2006 Academic Year, and Doctorate degree education started in the Fall Semester of the 2015-1016 Academic Year.

ACADEMIC STAFF

There are two professors and two research assistants in the Graduate Program of the Department of Pharmaceutical Chemistry.

FILEDS OF RESEARCH

- ❖ Drug Design
- ❖ Drug Synthesis and Method Development
- ❖ Analytical Methods and Purity Control
- ❖ Structure-Activity Relationships (SAR/QSAR)
- ❖ Drug-Biological Target Interactions
- ❖ Prodrug Design
- ❖ Multidisciplinary Studies

PROGRAM COMPETENCIES

- ❖ Knows the importance of ethical principles and rules for individuals, society, and science, and acts ethically.
- ❖ Keeps up with the latest developments in pharmaceutical chemistry, solves problems they encounter, and thinks creatively and critically.
- ❖ Can design original work in their field.
- ❖ Follows developments related to their area of expertise, gains practical skills in their professional life, and can use the knowledge and skills they have acquired as a result of the program.
- ❖ Plans research with pharmaceutical chemistry and related interdisciplinary working groups and establishes the necessary collaborations.
- ❖ Completes scientific studies, presents them at national/international scientific meetings, and publishes scientific articles related to their field in national/international peer-reviewed journals.
- ❖ Can perform synthesis methods, purification, spectral analysis, and structural elucidation of drug active ingredients.
- ❖ Knows advanced organic chemistry, drug mechanism of action, and qualitative-quantitative and spectral structural analysis methods of drugs.
- ❖ Can solve problems encountered in organic and inorganic synthesis and apply chemical synthesis procedures.
- ❖ Understands the importance of stereochemistry in pharmaceutical chemistry and knows the importance of isomers in activity when synthesizing compounds containing active carbon.
- ❖ Knows the behavior of drugs in biological systems and designs active ingredients with knowledge of bioavailability, metabolism, signal transmission, and mechanisms of action.
- ❖ Uses separation and purification methods and can apply drug quality control principles.
- ❖ Elucidates molecular structures using instrumental analysis methods.
- ❖ Uses laboratory equipment, including computers, as required during experimental research.

EMPLOYMENT OPPORTUNITIES

Program graduates can work in units conducting all kinds of research and development activities related to medicine, such as the pharmaceutical industry and pharmaceutical quality control laboratories, as well as in all areas where there is a need for specialist pharmacists in the Ministry of Health and other government institutions, and in public and private pharmacies.

CONTACT

Mersin University Yenisehir Campus C Block, MERSIN

+90 324 341 28 15 / 2635