



T.C.
MERSİN UNIVERSITY
INSTITUTE OF HEALTH SCIENCES

DEPARTMENT OF MEDICAL MICROBIOLOGY

GRADUATE PROGRAMS

2025

HISTORY

- The Department of Medical Microbiology at Mersin University Faculty of Medicine was established in 1998. The department began postgraduate education at the Health Sciences Institute in 2001 and doctoral programs in 2004.
- Since its establishment, 15 doctoral students and 32 master's students have graduated.
- The department consists of two units. The first unit is the Patient Services Laboratory, located in the Faculty of Medicine's Health Research and Application Center, focused on diagnostic microbiology and equipped with state-of-the-art equipment. The second unit, located in the Dean's Office Basic Sciences Building, houses laboratories equipped with advanced equipment designed to conduct routine services and research in molecular microbiology (virology and bacteriology).

ACADEMIC STAFF

Prof. Dr. Gönül ASLAN (Department Head)

Prof. Dr. Candan ÖZTÜRK

Prof. Dr. Nuran DELİALİOĞLU

Prof. Dr. Ali KAYA

Prof. Dr. Seda TEZCAN ÜLGER

Assoc. Prof. Dr. Taylan BOZOK

Assistant Professor Harun GÜLBUDAK

FIELDS OF RESEARCH

- Our department conducts research on a wide range of topics, including disease diagnosis, epidemiology, and immunology.
- Our primary research interests include: routine bacteriological, serological, mycobacterial, mycological, parasitological, molecular diagnostic microbiological, and molecular virological methods, and we are working to develop new diagnostic methods.

PROGRAM COMPETENCIES

Master's Program Competencies

1. Students will acquire general knowledge in the fields of general bacteriology, virology, parasitology, mycology, and immunology.
2. Students will be able to identify and use equipment and devices in microbiology laboratories.
3. Students will learn and apply the theoretical and practical application of laboratory methods used in general bacteriology, virology, parasitology, mycology, and immunology.
4. Students will be able to interpret laboratory test results.
5. Students will be knowledgeable about scientific research techniques.
6. Students will gain the ability to analyze and present scientific information.
7. Students will gain the ability to interpret national and international research articles.
8. Students will learn ethical values and issues in microbiology.
9. Students will gain the ability to make oral presentations in front of an audience at national and international congresses and symposiums related to their field.
10. Students will gain the ability to access and interpret information through scientific research.

PROGRAM COMPETENCIES

- Doctoral Program Competencies
 - 1. Students will acquire in-depth knowledge in the fields of general bacteriology, virology, parasitology, mycology, and immunology.
 - 2. Students will be familiar with the equipment and devices used in microbiology laboratories and will be able to use them.
 - 3. Students will learn and apply the theoretical and practical application of laboratory methods used in general bacteriology, virology, parasitology, mycology, and immunology.
 - 4. They will be able to interpret laboratory test results.
 - 5. They will be knowledgeable about scientific research techniques.
 - 6. They will be aware of the latest developments in microbiology and will be able to analyze and present scientific information.
 - 7. They will be able to interpret national and international research articles.
 - 8. They will be able to learn ethical values and issues in microbiology.
 - 9. They will be able to give oral presentations to an audience at national and international congresses and symposiums related to their field.
 - 10. Students will gain the ability to conduct independent research, analyze scientific events from a broad and in-depth perspective, interpret them, and identify the necessary steps to achieve new syntheses. 11. Gains experience working in groups on collaborative scientific projects.
 - 12. Gains the ability to transfer acquired knowledge and experience to students at the course level.

PROGRAM COMPETENCIES

-  In the Health Sector
 - Hospitals (Public and Private): Microbiology laboratories, clinical microbiology diagnostic centers
-  Academic and Educational Field
 - Universities: Faculty members/researchers at medical schools, health sciences schools, and vocational schools
 - Research Institutes: R&D projects at institutions such as TÜBİTAK and TÜSEB, including infectious disease, virology, and epidemiology research
-  Research and Development (R&D)
 - Pharmaceutical Industry: Antibiotic, antiviral, and antifungal development, clinical trials, and drug safety studies
 - Biotechnology and Diagnostic Kit Companies: PCR kits, rapid diagnostic tests, and vaccine production
 - Vaccine Production Centers: Work in vaccine research and production facilities
-  Public Institutions
 - Ministry of Health: Public health laboratories, National reference laboratories, Infectious disease surveillance units
 - Ministry of Agriculture and Forestry, Food Safety Institutions: Zoonotic diseases, foodborne microbiological analyses
 - Institution of Forensic Medicine: Forensic microbiology examinations
-  International Fields: Project-based or permanent positions at institutions such as the World Health Organization (WHO), the European Centre for Disease Prevention and Control (ECDC), and the CDC. Opportunities to work on international research projects and consortia
-  Freelance / Entrepreneurship: Opening a private diagnostic laboratory, Microbiology consulting, Biotechnology initiatives (e.g., probiotic, vaccine, kit production)

CONTACT

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