

Department of Experimental Pathology, Immunology and Microbiology

Interim Chairperson:	Zaatari, Ghazi
Vice Chairperson:	Matar, Ghassan
Professors:	Abdelnoor, Alexander; Khouri, Samia; Matar, Ghassan; Sayegh, Mohamed; Zaatari, Ghazi
Associate Professor:	Rahal, Elias
Assistant Professors:	Al-Awar, Ghassan; El Hajj, Hiba; Shirinian, Margret; Zaraket, Hassan

The Department of Experimental Pathology, Immunology and Microbiology offers courses to medical laboratory sciences (MLSP) students as well as nursing, medical, and graduate students. It offers a graduate program (discipline of Microbiology and Immunology) leading to a master's degree (MS) or doctoral degree (PhD) in Biomedical sciences.

The requirements for admission to the graduate program are stated on page 33 of this catalogue.

IDTH 203 The immune System in Health and Disease 37.28; 3 cr.
See Interdepartmental Courses.

IDTH 205 Microbiology and Infectious Diseases 37.28; 5 cr.
See Interdepartmental Courses.

MBIM 223 Parasitology for MLSP Students 39.39; 4 cr.
Second semester.

MBIM 237 Microbiology and Immunology 32.64; 3 cr.
for Nursing Degree Students
 A course on the fundamental aspects of medical microbiology and immunology for nursing students. *Second semester.*

MBIM 260 Elective in Infectious Diseases for Medicine III and IV 0.180
 A course on basic evaluation, diagnosis, and management of infectious diseases. One month.

MBIM 261 Elective in Immunology for Medicine III and IV 0.180
 A course that is an introduction to immunological research and its application to clinical practice. *One month.*

MBIM 310 Basic Immunology 32.32; 3 cr.
 A course on innate and adaptive immune mechanisms, infection and immunity, vaccination, immune mechanisms in tissue injury and therapeutic immunology. *Second semester.*

MBIM 311 Bacteriology 32.32; 3 cr.
 A course on the characteristics and classification of medically important bacteria, diseases caused by bacteria, anti-bacterial agents, susceptibility testing, prophylaxis and therapy. *Second semester.*

MBIM 312 Parasitology-Mycology 16.32; 2 cr.
 A course on the characteristics of medically important parasites and fungi, diseases caused by parasites and fungi, anti-parasitic and anti-fungal agents, prophylaxis and therapy. *Second semester.*

MBIM 313 Virology 16.32; 2 cr.
 A course on the characteristics and classification of medically important viruses, diseases caused by viruses, anti-viral agents, prophylaxis and therapy. *Second semester.*

MBIM 314 Tutorial in Immunology 32.0; 2 cr.

MBIM 315 Tutorial in Bacteriology 32.0; 2 cr.

MBIM 316 Tutorial in Virology 32.0; 2 cr.

MBIM 317 Tutorial in Parasitology-Mycology 32.0; 2 cr.

MBIM 318 Fruit Flies: Experimental Model Organism 1 cr.
 A course designed to introduce graduate students to a variety of topics, techniques including the latest approaches for studying human diseases using *Drosophila melanogaster* as a model system. The course also includes a hand on laboratory sessions.

MBIM 326 Applied and Advanced Immunology 32.64; 3 cr.
 A course on immunological diseases and their laboratory diagnosis. *Second semester. Alternate years.*

MBIM 327 Applied and Advanced Medical Bacteriology 32.64; 3 cr.
 A course on the epidemiology, pathogenesis, immune response, diagnosis and prevention of bacterial infections. *Second semester. Alternate years.*

MBIM 328 Applied and Advanced Parasitology 32.64; 3 cr.
 A treatise on epidemiology, pathogenesis, immune response, diagnosis and prevention of parasitic infections. *Second semester. Alternate years.*

MBIM 329 Applied and Advanced Virology 32.64; 3 cr.
 A treatise on epidemiology, pathogenesis, immune response, diagnosis and prevention of viral infections. *Second semester. Alternate years.*

MBIM 330 Molecular Microbiology 32.64; 3 cr.
 A course on molecular applications on the identification of infectious agents. *Second semester. Alternate years.*

MBIM 331 Infection Control 16.0; 1 cr.
 A treatise on the prevention of infections in the laboratory. *Second semester.*

MBIM 390 Seminar 0.32; 1 cr.
Annually.

MBIM 394 Journal Club 0 cr.
Annually.

MBIM 395A/B Comprehensive Exam 0 cr.
Prerequisite: Consent of advisor.

MBIM 399 MS Thesis 9 cr.
 A/B/C/D/E