

Department of Experimental Pathology, Immunology and Microbiology

Chairperson:	Matar, Ghassan
Professors:	Khoury, Samia; Matar, Ghassan; Sayegh, Mohamed;
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The Department of Experimental Pathology, Immunology and Microbiology offers courses to medical laboratory sciences (MLSP) students as well as to 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 35 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 term.


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 term.*

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 term.*

- 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 term.*
- 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 term.*
- 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 term.*
- 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 and techniques including the latest approaches for studying human diseases using *Drosophila melanogaster* as a model system. The course also includes a hands-on laboratory sessions.
- MBIM 319 natural products as anti-infective agents  32.64; 3 cr.**
The course will cover screening methods, biosynthesis, mechanism of action of novel anti-infectives in addition to early pharmacokinetics and pharmacodynamics properties. *Second term. Prerequisite course: BIOC322*
- MBIM 326 Applied and Advanced Immunology 32.64; 3 cr.**
A course on immunological diseases and their laboratory diagnosis. *Second term. 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 term. 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 term. 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 term. Alternate years.*

MBIM 330	Molecular Microbiology	32.64; 3 cr.
A course on molecular applications on the identification of infectious agents. <i>Second term. Alternate years.</i>		
MBIM 331	Infection Control	16.0; 1 cr.
A treatise on the prevention of infections in the laboratory. <i>Second term.</i>		
MBIM 390	Seminar	0.32; 1 cr.
<i>Annually.</i>		
MBIM 394	Journal Club	0 cr.
<i>Annually.</i>		
MBIM 395A/B	Comprehensive Exam	0 cr.
<i>Prerequisite: Consent of advisor.</i>		
MBIM 399	MS Thesis	9 cr.
A/B/C/D/E		