Department of Pathology and Laboratory Medicine

Chairperson: Zaatari, Ghazi
Emeritus Professors: Khouri, Farid; Nassif, Raif
Professors: Araj, George; Habbal, Mohammad-Zouheir; Rebeiz, Jean; Zaatari, Ghazi
Visiting Professor: Ahdab-Barmada, Mamdouha
Associate Professors: Daher-Karam, Rose; Kaspar, Hanna; Salem Shabb, Nina; Tawil, Ayman; Zahed, Laila
Assistant Professors: Kattar, Mireille; Kfoury-Baz, Elizabeth; Mahfouz, Rami
Research Associate Sukhn, Carole

The Department of Pathology and Laboratory Medicine offers undergraduate courses to medical students and students in the medical laboratory technology program (Faculty of Health Sciences). The department offers three- to four-year residency training programs in pathology and laboratory medicine.

**PATH 229 Pathology**
Undergraduate teaching of mechanisms of diseases (general pathology) and morphological and pathophysiological aspects of organ diseases (systemic pathology).

**IBUT 221/222 Introduction to Medicine**
See Department of Internal Medicine.

**IBUT 223/224 Physical Diagnosis**
See Department of Internal Medicine. *Annually.*

**PATH 260 Elective in Pathology**
An elective open to clinical students. The purpose of this clerkship is to expose students to the general principles of surgical pathology and cytopathology. Students participate in the daily teaching activities of the department, learn general dissection skills, and sit in on the sign-out sessions. *One to two months.*

**LABM 262 Elective in Laboratory Medicine**
A clerkship offered year round to Med IV students. This clerkship consists of daily practical training supplemented by lectures and seminars to cover the disciplines of clinical chemistry, clinical microbiology and immunology, clinical hematology, blood banking and transfusion medicine, and cytogenetics. This elective is available in the aforementioned disciplines of laboratory medicine and may be adjusted according to the interest of the candidate. During the rotation the student is required to make a presentation on a topic of interest and is encouraged to conduct an investigative research project. *One to two months.*

**LABM 287 Internship**
Same as LABM 262. *Offered to rotating interns.* *One to two months.*

**Clinico-Pathology Conferences**
Med III, IV, and staff in collaboration with the departments of Surgery, Internal Medicine, Pediatrics, Obstetrics and Gynecology, Diagnostic Radiology, Ophthalmology, and Otolaryngology, and Head and Neck Surgery.
Courses Offered for Medical Laboratory Technology Students

**LABM 201/202  Clinical Chemistry I and II  2.0; 2 cr.**
A pair of courses in which the main objective is to acquaint students with the fundamentals of clinical chemistry, including various analytical procedures, instrumentation, and methods used for determination of clinical analyses. Correlation of laboratory results with clinical manifestation is also an integral part of these courses. These two courses cover all aspects of routine clinical chemistry testing, such as carbohydrates, electrolytes, acid-base balance, blood gases, nitrogen metabolites, proteins, enzymes, lipids and lipoproteins, and liver function.

**LABM 210  Cytology and Histological Techniques  32.0; 2 cr.**
A course that includes a series of lectures and demonstrations on cell biology, a review of normal histology of various human organs, a description of examples of pathological changes, lectures on techniques of tissue handling, and preparation and staining of sections and smears for cytological material. Members of the department and the Department of Human Morphology.

**LABM 220  Clinical Chemistry and Endocrinology  0.128; 4 cr.**
Practical experience in clinical chemistry and endocrinology. *Eight weeks.*

**LABM 230  Clinical Hematology and Reception  0.128; 4 cr.**
Practical experience in clinical hematology and reception area. *Eight weeks.*

**LABM 233  Genetics and Molecular Biology  2.0; 2 cr.**
A course that includes an introduction to human genetics, comprising the structure and function of DNA and the classification of genetic disorders. Diagnostic techniques in human genetics (cytogenetics, biochemical, and molecular) are covered, as well as molecular techniques applied in pathology and microbiology.

**LABM 234  Special Topics/Techniques in Laboratory Medicine  2.0; 2 cr.**
A course that provides theoretical knowledge in specialized topics including endocrinology, chromatography, toxicology, tumor markers, therapeutic drug monitoring, flowcytometry, molecular testing, advanced clinical microbiology, antimicrobial agents, blood banking and transfusion medicine, and total quality management.

**LABM 235  Medical Mycology  1.0; 1 cr.**
A course that covers the different kinds and types of fungi (yeast and mold). This course discusses their disease spectrum mode of infection, gross requirements, and cultural and non-cultural methods of identifications as well as antifungal drugs and susceptibility testing of fungi.

**LABM 240  Clinical Microbiology  0.128; 4 cr.**
Practical experience in clinical microbiology (aerobic and anaerobic bacteriology, mycobacteriology, mycology, and susceptibility testing). *Eight weeks.*

**LABM 250  Clinical Parasitology and Urinalysis  0.64; 2 cr.**
Practical experience in clinical microscopy pertaining to parasitology, urinalysis, and spermogram. *Four weeks.*

**LABM 260  Serology  0.64; 2 cr.**
Practical experience in clinical immunology and serodiagnostic techniques. *Four weeks.*

**LABM 270  Blood Banking  0.64; 2 cr.**
Practical experience in blood banking and transfusion medicine. *Four weeks.*

**LABM 280  Cytogenetics, Molecular Diagnostics, and Histotechniques  0.64; 2 cr.**
Practical experience in cytogenetics, molecular diagnostics, and histotechniques. *Four weeks.*