Laboratory Medicine & Pathology Education Overview

BSc MLS

Professional Workforce

Transition to clinical practice
Hematology
Hemostasis
Pathogenic microbiology
Human histology & histotechnology
Clinical biochemistry
Transfusion science
Analysis & communication of biomedical information

Research project
Molecular approaches to the study & diagnosis of disease
Techniques in molecular biology
Applied toxicology
Introduction to clinical laboratory management
Clinical biochemistry
Clinical immunology
Emerging trends in medical laboratory science
Advanced hematology

MSc LMP

Professional Workforce

Thesis-based:
Introduction to Human Disease
Cryobiology
Experimental Design & Scientific Communication
Practical Tools for Scientific Research
Directed Reading in Laboratory Medicine and Pathology
Analytical and Environmental Toxicology
Laboratory Research Methods
Toxicology and Regulation
Techniques in Molecular Biology
Technology and the Future of Medicine
Thesis research

PhD LMP

Professional Workforce

Postdoctoral Fellowships

Professional Workforce

Clinical Fellowships:
Clinical Biochemistry
Clinical Microbiology
Histocompatibility and Immunogenetics
Medical Genetics

Research

MD Program

Introduction to the Profession:
Foundations in physiology, pathology, genetics, pharmacology, haematology, immunology, infectious disease.

Diagnostic and Molecular (Anatomical) or Diagnostic and Clinical (General) Pathology:
Electives
Hematopathology:
Electives
Medical Microbiology:
Electives

Pathologists' Assistant Course and practicum based:
Systematic Pathology
Anatomic Pathology Techniques
Laboratory Management
Pathologists' Assistant Clinical Practicum
Research Project

Transfusion Science Specialization Course and practicum based:
Immunohematology
Blood donation, supply and distribution
Blood product inventory management
Blood bank quality management and regulatory systems
Clinical practicum research project

Residency Programs

Professional Workforce

Diagnostic and Clinical Pathology (General Pathology):
Clinical pathology (Hematopathology, Transfusion Medicine, Medical Microbiology, Medical Biochemistry)
Surgical pathology
Cytology
Autopsy pathology
Molecular pathology

Diagnostic and Molecular Pathology (Anatomical Pathology):
Autopsy pathology
Dermatologic pathology
Cytology
Breast pathology
Genito-urinary pathology
Forensic pathology
Neuropathology
Pediatric pathology
Lymph node pathology
Diagnostic molecular pathology
Surgical pathology
Gynecological pathology

Hematopathology:
Transfusion medicine
Canadian Blood Service
Bone marrow transplant
Cytogenetics
Medical oncology
Community laboratory hematology and hemoglobinopathy
Adult hematology
Pediatric hematology
Coagulation
Lymphoma pathology
Immunohistochemistry
Molecular pathology
Histocompatibility and immunology

Medical Microbiology:
Medical bacteriology
Molecular microbiology
Mycology
Parasitology
Virology/serology
Antibiotic stewardship
Lab management
Clinical infectious diseases
Public health
Epidemiology

MD Fellowships

Professional Workforce

Forensic Pathology
Breast Pathology
Gastrointestinal Pathology
Histocompatibility & Immunogenetics
Lymphoproliferative Disorders
Molecular Genetic Pathology
Renal & Transplantation Pathology
Transfusion Medicine

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