



Véronique Barrès
Core Facility Co-Manager



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Core Facility Co-Manager

The molecular pathology core facility offers services to support research teams in the histological and pathological aspects of their projects.

In addition to proficiency in standard histological analyses, our staff members have many years of experience in every step of the construction and analysis of tissue microarrays (TMA).

RESEARCH IN ACTION

The golden cohort of the Terry Fox Research Institute's Marathon of Hope is set to become a complete resource for clinical and genomic data from 15,000 Canadian patients diagnosed with cancer. Through this project, we receive tissues from various CRCHUM biobanks, which are then sectioned, stained, scanned on slides and revised by our research pathologist. DNA and RNA are then extracted from tissues that meet the criteria and controlled for quality. Since the project began in 2022, this sequence of experiments has allowed over 600 patients to be treated (1,800 samples from 11 biobanks).

SERVICES

Our highly qualified staff members and our core facility's specialized equipment allow us to offer services that meet the scientific community's various histological and molecular biology needs.

- SECTIONING AND STAINING (H&E)
- AUTOMATIZED IMMUNOHISTOCHEMISTRY AND IMMUNOFLUORESCENCE/STAINING OF SLIDES ON THE COMET
- MICROSCOPY AND SCANNING OF SLIDES IN BRIGHT FIELD AND FLUORESCENCE
- AUTOMATED IMAGE ANALYSIS USING VISIOPHARM'S VIS SOFTWARE
- DNA AND RNA EXTRACTION, ASSAY AND QUALITY CONTROL
- PARAFFIN EMBEDDING OF TISSUES AND CREATION OF BLOCKS OF CELL PELLETS
- TISSUE MICROARRAY (TMA) CONSTRUCTION
- HISTOLOGY CONSULTING
- INVESTIGATIVE HISTOPATHOLOGY

HIGHLIGHTS

Since 2013, our staff has:



digitized more than **10,000 slides** each year



supported over **40 user groups** monthly



offered over **15 services** to the scientific community



developed new services to keep up with new technologies

