



MONASH HISTOLOGY PLATFORM – MHTP NODE

Histology involves the study of the microscopic anatomy of cells and tissues. Tissues are processed, sectioned, stained and imaged to reveal delicate morphological features that can indicate health or disease for research, education or clinical studies.

The Monash Histology Platform MHTP node provides access to all paraffin and frozen sectioning and staining services, slide scanning and digital imaging, tissue microarray generation and automated immunohistochemical staining.

KEY TECHNOLOGIES

- Tissue processors - Leica ASP300 and Medite TPC 15 Duo
- Embedding units - Leica EG1160, Leica EG1140C and Leica EG1150h
- Microtomes - Leica RM2135, Leica RM2255 and Leica RM2155
- Cryostats - Leica CM3050 and Leica CM1850
- Vibratome - Leica VT1200S
- Scanner - Olympus VS120
- Immunohistochemistry Autostainer - Dako Autostainer Plus

Equipment accessed through the Monash Histology Platform at Monash University includes:

- Autostainer and Coverslipper - Leica ST5010 and CV5030
- Immunohistochemistry Autostainer - Dako Link 48
- Immunohistochemistry Antigen Retrieval – Dako PT Link
- Fluorescent microscope/Digital camera /Polarizer/DP12 – Olympus BX41 2x, Leica DFC450C, Olympus Polariser U-ANT, Olympus DP12
- Micro Tissue Arrayer – Beecher MTA-1
- Brightfield slide scanner – Aperio Scanscope AT Turbo
- Fluorescent slide scanner – Aperio Scanscope FL

EXPERTISE

Camilla Cohen leads an experienced team at the Monash Histology Platform 'hub' at Monash University along with MHTP and Alfred Medical Research and Educational Precinct (AMPREP) 'node' sites. Camilla draws on over 20 years' experience in private and public Histology laboratories and operates both Paraffin and Resin laboratories.

Angela Vais supervises the MHTP Histology node and has over 15 years' research experience. Angela is dedicated in helping researchers achieve their scientific goals and along with the MHTP Histology team, provides a high quality and comprehensive service that includes training and education.

WORKING WITH US

- Fee for service
- Consultancies

SPECIALIST SERVICES

The MHTP Histology node has two service streams; a full end-to-end (Professional) service provided by specialist staff, and a self-service (DIY) providing access to specialist laboratory equipment and staining reagents.

The suite of latest equipment introduces the Leica Vibratome VT1200S for sectioning thick sections from live, fresh and fixed tissues, a Dako automated Immunostainer and the newly acquired Olympus VS120 scanner for provision of on-site scanning requirements. With both Brightfield and Fluorescent capabilities the Olympus scanner produces the highest quality images and together with an interactive consultation session with the Monash Microimaging Platform, provides a complete image analysis service for researchers.

Paraffin laboratory

The paraffin laboratory located at the MHTP is equipped with a broad range of equipment designed to support the most diverse requirements of your histology projects including:

- Fully equipped dissection areas and a cassette slide writer
- Rapid, dual processing Leica ASP300 and Medite TPC 15 Duo tissue processors providing efficient, reliable and timely processing to paraffin wax
- Embedding units for high quality paraffin blocking
- Modern microtomes for specimen sectioning
- Fully equipped staining area
- Cryostats for frozen section generation
- Automated immunostaining unit providing high-through put and consistency for immunohistochemical and immunofluorescent staining
- Vibratome - Leica VT1200S for sectioning thick sections from live, fresh and fixed tissues
- Slide scanner - Olympus VS120 for brightfield and fluorescent scanning

Resin laboratory

The resin laboratory is located on the Monash University campus and provides specialised processing, sectioning and staining services for projects requiring resin sections.

Monash Histology Platform – MHTP Node

Rooms 3.23 & 3.24 Level 3, MHRP
Monash Health Translational Precinct
Building 262, Monash Medical Centre
27-31 Wright Street Clayton VIC 3168

Angela Vais

MHP-MHTP Histology Node Senior Officer
E: angela.vais@monash.edu
T: +61 3 9594 7442

Camilla Cohen

Monash Histology Platform Manager
E: camilla.cohen@monash.edu
T: + 61 3 9905 2740

mhtp.org.au/facilities
platforms.monash.edu/histology

