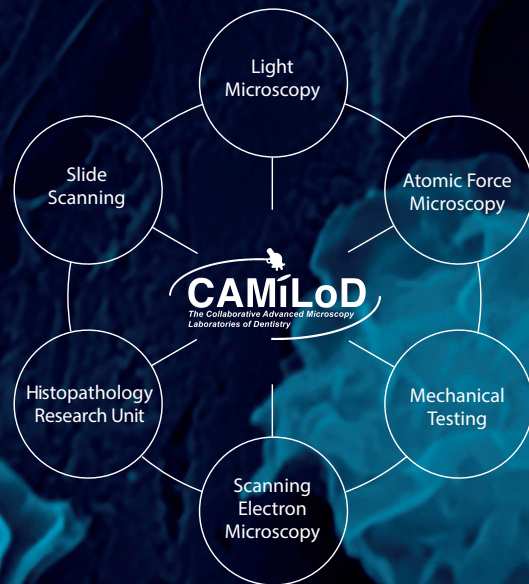




Get started at CAMiLoD

First step: arrange a complimentary consultation with us.

Contact us:

General & Microscopy
Dhaarmini Rajshankar
camilod.info@utoronto.ca

SEM & Mechanical testing
Jian Wang
camilod.sem@utoronto.ca

Histology Research Unit
Aiman Ali
camilod.hru@utoronto.ca

Your Research First!

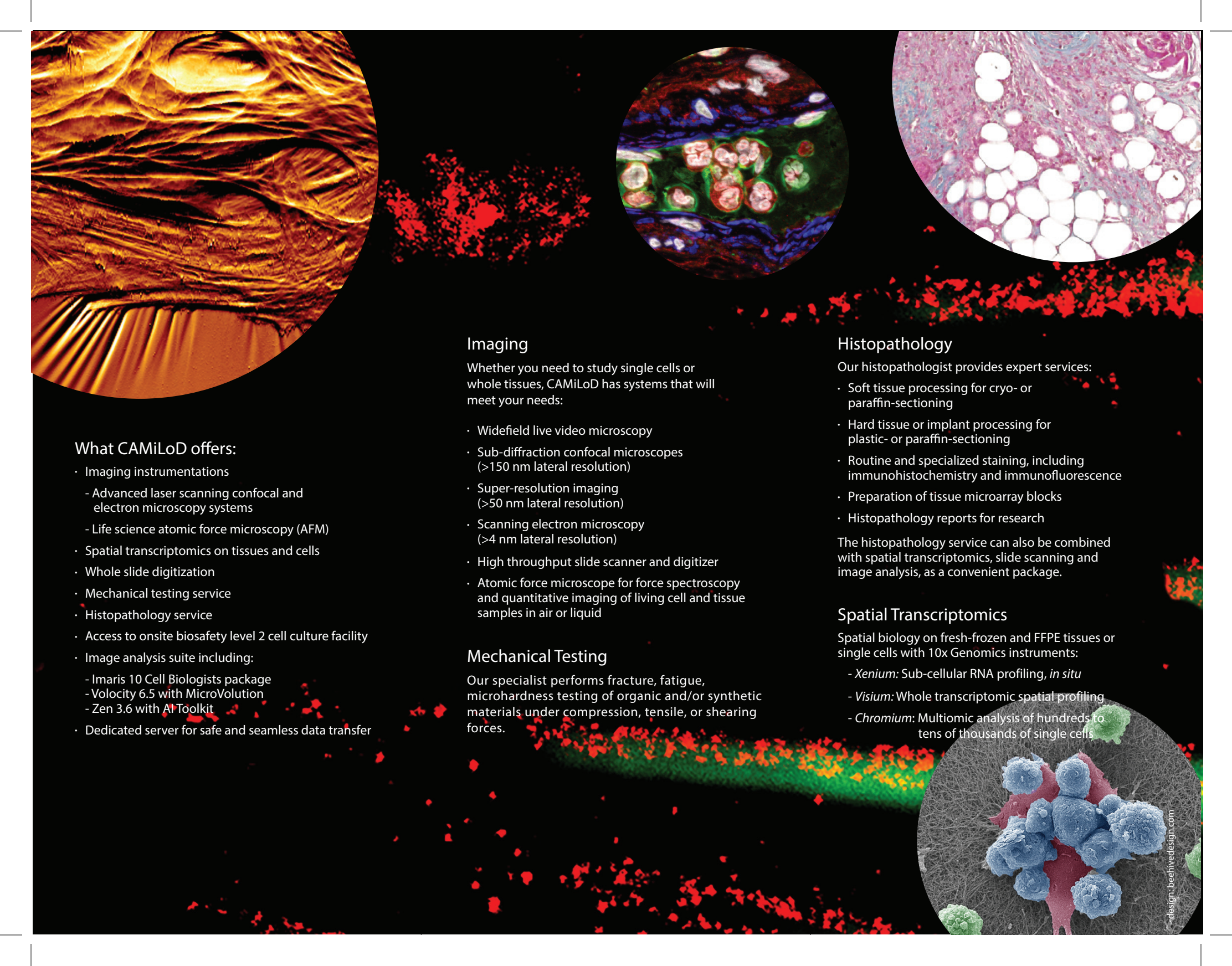
For imaging, mechanical testing, histopathology and spatial transcriptomics services.

We provide access to equipment and specialized services at competitive rates.



CAMiLoD | Faculty of Dentistry
University of Toronto
124 Edward St.
Toronto, ON M5G 1G6
416.864.8490
www.camilod.ca/





What CAMiLoD offers:

- Imaging instrumentations
 - Advanced laser scanning confocal and electron microscopy systems
 - Life science atomic force microscopy (AFM)
- Spatial transcriptomics on tissues and cells
- Whole slide digitization
- Mechanical testing service
- Histopathology service
- Access to onsite biosafety level 2 cell culture facility
- Image analysis suite including:
 - Imaris 10 Cell Biologists package
 - Volocity 6.5 with MicroVolution
 - Zen 3.6 with AI Toolkit
- Dedicated server for safe and seamless data transfer

Imaging

Whether you need to study single cells or whole tissues, CAMiLoD has systems that will meet your needs:

- Widefield live video microscopy
- Sub-diffraction confocal microscopes (>150 nm lateral resolution)
- Super-resolution imaging (>50 nm lateral resolution)
- Scanning electron microscopy (>4 nm lateral resolution)
- High throughput slide scanner and digitizer
- Atomic force microscope for force spectroscopy and quantitative imaging of living cell and tissue samples in air or liquid

Mechanical Testing

Our specialist performs fracture, fatigue, microhardness testing of organic and/or synthetic materials under compression, tensile, or shearing forces.

Histopathology

Our histopathologist provides expert services:

- Soft tissue processing for cryo- or paraffin-sectioning
- Hard tissue or implant processing for plastic- or paraffin-sectioning
- Routine and specialized staining, including immunohistochemistry and immunofluorescence
- Preparation of tissue microarray blocks
- Histopathology reports for research

The histopathology service can also be combined with spatial transcriptomics, slide scanning and image analysis, as a convenient package.

Spatial Transcriptomics

Spatial biology on fresh-frozen and FFPE tissues or single cells with 10x Genomics instruments:

- *Xenium*: Sub-cellular RNA profiling, *in situ*
- *Visium*: Whole transcriptomic spatial profiling
- *Chromium*: Multiomic analysis of hundreds to tens of thousands of single cells