

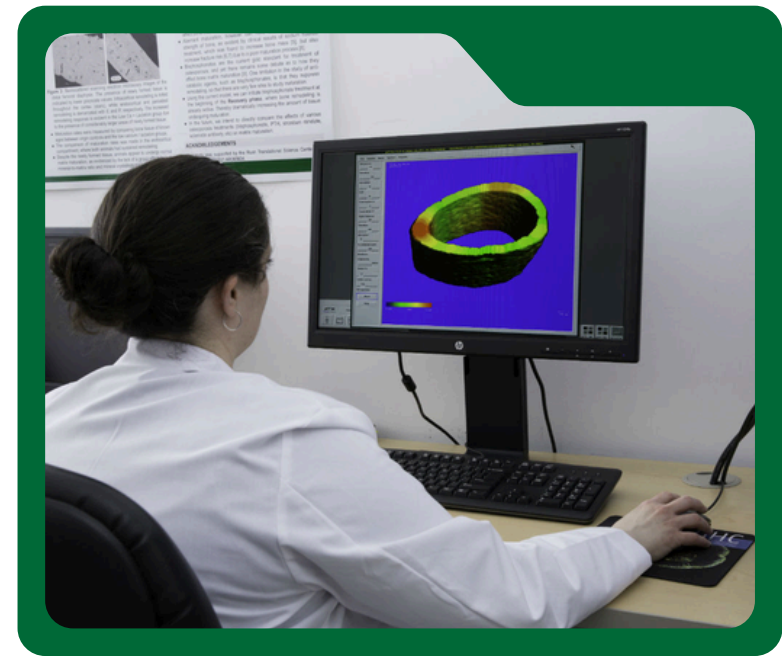
RUSH UNIVERSITY **μCT & Histology Core Lab**

The μCT and Histology Core offers advanced ex vivo 3D tissue imaging and histology services.

Users may contract the Core for μCT scanning and analysis, or perform them independently after completing required training and certification.

We also offer the RNase-free histology workflow for spatial transcriptomics

We do not provide training for histology services.



Services

Equipment

Contact Us

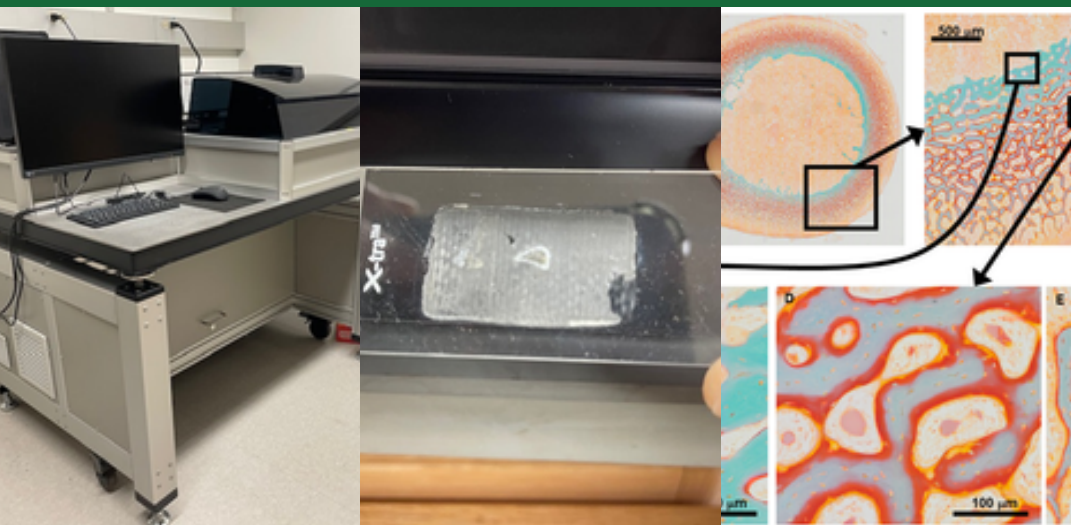
Imaging Services

- Ex vivo micro-computed tomographic scanning of specimens
 - specimens can contain metal implants
- 3D quantification of
 - bone architecture, porosity and density
 - articular cartilage morphology and proteoglycan content
 - vascular networks
 - biomaterials
- Exportation of images (slices) in TIFF or DICOM format
- Creation of 3D renderings and animations of scanned specimens
- Ex vivo or In vivo X-ray imaging and DEXA measurement of bone mineral density and body composition



Histology Services

- Hard-tissue (undecalcified) methylmethacrylate (MMA) or epoxy processing and embedding
 - specimens can contain metal implants
- Sectioning of MMA-embedded specimens
 - laser microtome thin sectioning
 - cut-and-grind slab sectioning
- Histopathology and immunohistochemistry stains
- Decalcified paraffin processing and embedding
- Thin sectioning and slide preparation
- Histopathology and immunohistochemistry stains
- High resolution slide imaging/scanning
- Histology workflow for spatial transcriptomics (10x)



Equipment

Scanco μ CT 45

Scanco μ CT 50

Kubtec Parameter X-ray Cabinet with DEXA Software

TissueSurgeon laser microtome (LLS Rowiak)

Buehler Isomet 5000

Exakt 310 CP band saw

Buehler Phoenix 4000 grinder/polisher

Leica TP1020 automated paraffin processor

Leica Arcadia paraffin embedder

Leica RM2255 microtome

VS200 Evident slide scanner

 RUSH



Contact Us



Pricing is based on the scope of services requested. Quotes available upon request.



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