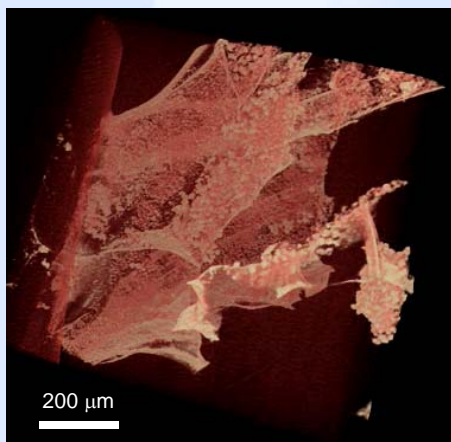


Rapid Virtual Histology for soft, calcified tissue & medical implants. *Which is*

1. Non Invasive in 3D

No sectioning, no conductive coating

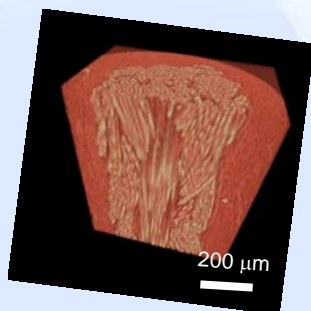


3D CT image of PCL-collagen scaffold showing distribution of rat hepatocyte cells at 0.7 μm resolution, in tissue engineering application.

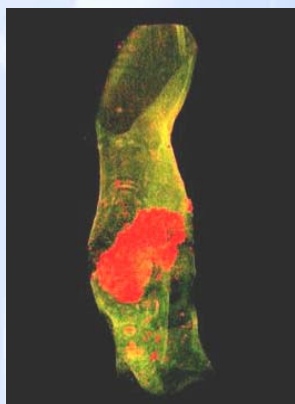
Observe surface or buried structures As /s, in 3D at ambient - with minimal or no sample preparation; without physical sectioning nor chemical etching; staining; nor the need for a conductive coating

3. High Contrast-without staining

Without staining, labeling & contrast agents for soft tissue & low Z materials



3D CT image of a human laryngeal nerve fiber (left image) and 3D image of atherosclerotic mouse aorta with calcified plaque at 0.7 μm pixel resolution (Right image) without the need for contrast agents.



2. Multilengthscale. mm-sub 50 nm

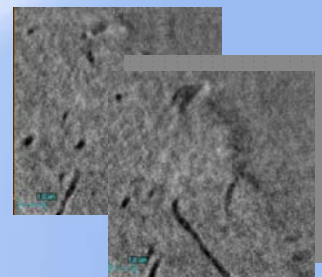
Smooth transition from meso to nanoscale imaging (sub 50nm resolution)



Meso



Micro

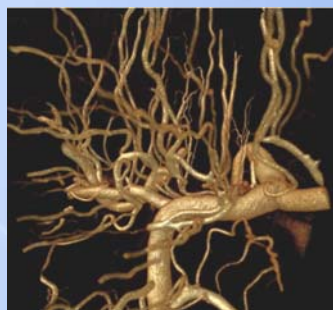


Nanotomography

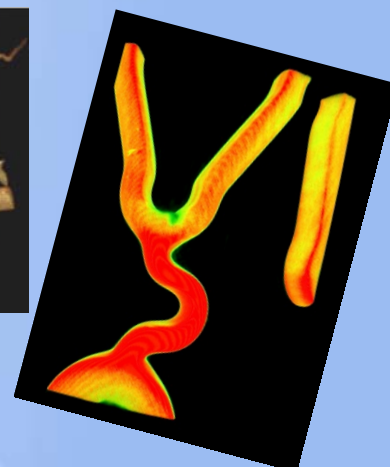
Meso scale imaging in 3D of a rat tibia (top image). Sagittal MicroCT slice @ 3 μm resolution, showing cartilage (middle image) and axial nanotomography slices @ 50 nm resolution, showing osteocyte lacunae in cortical bone (bottom image)

4. Versatile

Tumor microvasculature to medical devices



3D CT image of microvasculature of stained mouse cerebral tissue (left image) and 3D CT image of a heart stent showing cracks



*Novel micro, nano and multilengthscale CTs (x-ray computed tomography systems).
Transforming the way histology can be done*



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