# MicroXCT™ : High Resolution CT imaging of Bones, Cartilage Soft tissue & Scaffolds

## Capabilities:

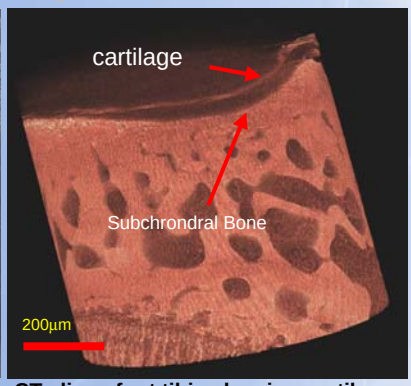
- Non invasive 3D imaging to < 1 µm pixel resolution of calcified to soft tissue & microvasculature in biomedical research
- High contrast imaging for soft tissue and cartilage without contrast agent

## Benefits:

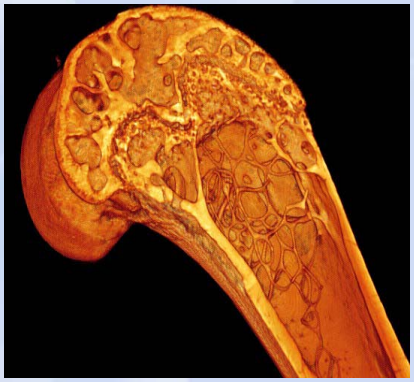
- Sharp and high resolution CT images at the 1 to 3 micron resolution for relatively large samples without sample sectioning for bone quality evaluation
- Rapid Virtual histology with and without contrast agents, for osteoporosis, osteoarthritis and other bone disease research

## Applications Examples:

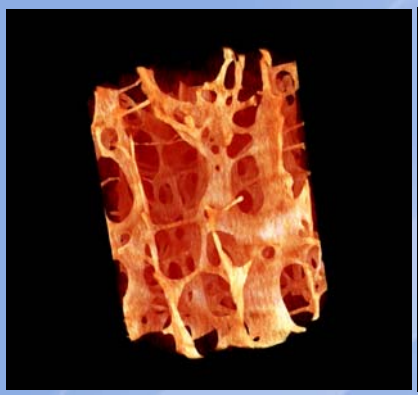
CT slice of intact rat knee joint without contrast agent



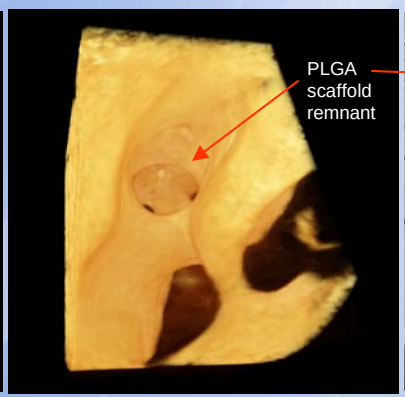

CT slice of rat tibia showing cartilage layer, without contrast agent @ 3 µm



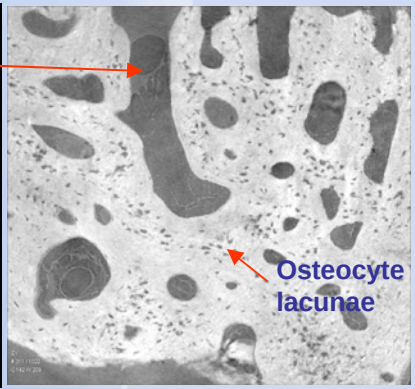
3D rendered volume of mouse tibia @ 1.5 µm resolution



3D rendered volume of trabeculae in human vertebrae at 1.5 µm resolution




Trabeculae of human cortical bone several weeks after PLGA scaffold implant




CT slice of cancellous human cortical bone @ 0.75 µm resolution

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