CBSET

INNOVATING TECHNOLOGY
INTEGRATING SCIENCE
IMPROVING LIVES

COMPUTED TOMOGRAPHY (CT) IMAGING

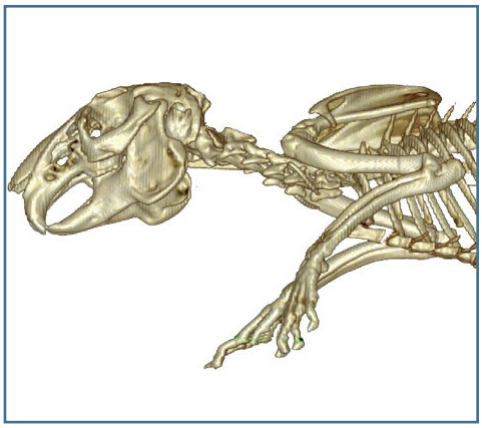
Clinical Quality Imaging in Preclinical Development

Clinical CT imaging systems can provide a valuable complement for your preclinical research and development. Through visualization and measurement tools, CT imaging can supports in vivo studies in various ways, such as pre-surgical/device implant planning, real-time imaging during procedures, and post-procedural evaluations.

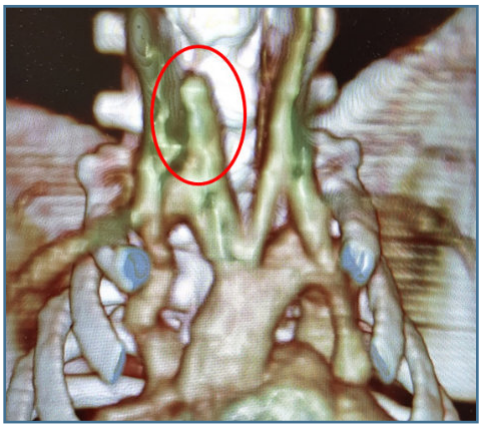
CBSET's Multi-Disciplinary Approach

CBSET employs an 8-slice small-bore portable Samsung CereTom® CT scanner that delivers the highest quality non-contrast, angiography, and contrast perfusion scans in a variety of locations. Its combination of rapid scan time, easy-to-use interface, and immediate image viewing make CereTom® an indispensable tool for real-time, high-quality images. This system complements our Innova 2100 cardiac catheterization lab suite with Innova 3D acquisition mode, providing 3D imaging from rotational angiography.

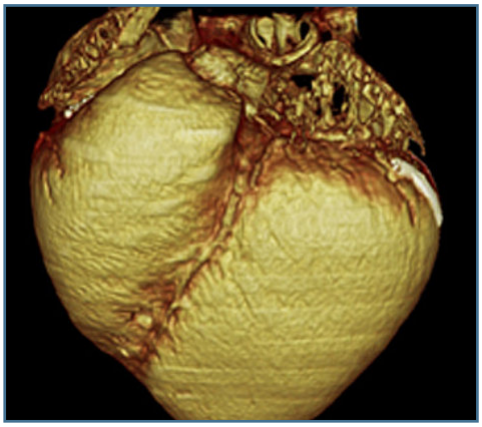
Samsung CereTom® CT Scanner



Rabbit Skeletal CT Reconstruction



Rabbit Aneurysm Creation CT Reconstruction



Pig Heart CT Reconstruction

Human Femur with Calcified Artery 3D Innova Reconstruction

Sheep Skull/Sinuses CT Reconstruction

ABOUT CBSET

CBSET is a state-of-the-art translational research institute located in the greater Boston area of MA.

Our mission is to advance biomedical research, through innovative, high-quality services. We combine top-tier research with operational expertise. Since our inception, CBSET has continued to develop technical and scientific acumen through collaborative projects in the medical device, pharmaceutical and academic communities.

Our 40,000 square foot, GLP-compliant, AAALAC- accredited facility includes vivaria, procedure rooms, catheterization / imaging labs, surgical and necropsy suites, histopathology, SEM, and a range of other technologies.

Why CBSET?

- **Credibility.** We are recognized as unbiased experts, bringing independent credibility to your regulatory filings.
- **Culture.** Our culture is based in science; we value new models and creative collaboration.
- **Mission.** Our motivation is to enable your success; your product is our mission.
- **Integrated resource.** Our multidisciplinary team includes board-certified veterinary, quality, biological and quantitative sciences expertise, as well as board-certified pathologists – all in one facility.

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Scanner Specifications and Dimensions

- X-ray beam shape: Cone beam
- Low contrast detectability: 3 mm at 0.3%
- Spatial resolution: 7 lp/cm (soft tissue kernel)/ 15 lp/cm (high res. kernel)
- Rotation time: 1 sec (helical/dynamic), 2 sec/4 sec/6 sec (axial)
- Compatible with surgical navigation, HIS, RIS, PACS

Integrated Preclinical Research Platform